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OM nucleic - nucleic search, using sw model

Run on: August 6, 2005, 09:58:01 ; Search time 1445 Seconds
(without alignments)
670.660 Million cell updates/sec

Title: US-10-773-678-342

Perfect score: 20
Sequence: 1 gactcttcgaggaagcggt 20

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 4708233 seqs, 24227607955 residues

Total number of hits satisfying chosen parameters: 790860

Minimum DB seq length: 0
Maximum DB seq length: 20

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 100 summaries

Database :

GenEmbl:*

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2: gb_htg.*
3: gb_in.*
4: gb_om.*
5: gb_ov.*
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8: gb_pl.*
9: gb_pr.*
10: gb_ro.*
11: gb_sts.*
12: gb_sy.*
13: gb_un.*
14: gb_vl.*

AR262165 Sequence
AR344603 Sequence
CQ623374 Sequence
AR464437 Sequence
AR4039777 Sequence
AX130162 Sequence
AX674695 Sequence
AX728763 Sequence
AR296765 Sequence
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BD259355 Regulatio
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AX214649 Sequence
AX214650 Sequence
AX215555 Sequence
AX648386 Sequence
AX648387 Sequence
AR162450 Sequence
AX116615 Sequence
AR067594 Sequence
BD141875 Polypepti
AR361458 Sequence
AR361459 Sequence
AR361503 Sequence
AX058354 Sequence
AX058355 Sequence
AX062314 Sequence
AX062315 Sequence
AX189548 Sequence
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AX189682 Sequence
ABI07879 Synthetic
A89451 Sequence 15
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AR130108 Sequence
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CQ622893 Sequence
CQ623373 Sequence
CQ623375 Sequence
AR286057 Sequence
AR398047 Sequence
AR463955 Sequence
AR463956 Sequence

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	14	70.0	20	6	AR120998 Sequence
2	14	70.0	20	6	BD272619 Antisense
3	14	70.0	20	6	AR531367 Sequence
4	13	65.0	19	4	L24340 Dog (Clone: DOG45501
5	12.8	64.0	20	6	BD228539 IL-17 hom
6	12.8	64.0	20	6	AR359764 Sequence
7	12.6	63.0	20	6	CQ798932 Sequence
8	12.4	62.0	17	6	A89364 Sequence 15
9	12.4	62.0	17	6	AX672730 Sequence
10	12.4	62.0	17	6	AX762313 Sequence
11	12.4	62.0	17	6	BD066877 An antise
12	12.4	62.0	18	6	AX117443 Sequence
13	12.4	62.0	20	6	AR098941 Sequence
14	12.4	62.0	20	6	AR164768 Sequence
15	12.4	62.0	20	6	BD222879
16	12.4	62.0	20	6	I79781 Sequence 77
17	12.4	62.0	20	6	AR218732 Sequence
18	12.4	62.0	20	6	AR223147 Sequence
19	12.4	62.0	20	6	AR229909 Sequence

93 11.2 56.0 17 6 AR464436 AR464436 Sequence
 94 11.2 56.0 17 6 AR464438 AR464438 Sequence
 95 11.2 56.0 17 6 AX728547 AX728547 Sequence
 96 11.2 56.0 17 6 AX760524 AX760524 Sequence
 97 11.2 56.0 18 6 BD244848 BD244848 Polynucle
 c 98 11.2 56.0 18 6 BD244849 BD244849 Polynucle
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ALIGNMENTS

RESULT 1
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 LOCUS Sequence 19 from patent US 6159694.
 DEFINITION AR120998
 ACCESSION AR120998
 VERSION AR120998.1 GI:14104574
 KEYWORDS
 SOURCE Unknown.
 ORGANISM Unknown.
 REFERENCE 1 (bases 1 to 20)
 AUTHORS Karras,J.G.
 TITLE Antisense modulation of stat3 expression
 JOURNAL Patent: US 6159694-A 19 12-DEC-2000;
 FEATURES Location/Qualifiers
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 Db 7 GACTCTTCGAGAA 20

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 LOCUS Antisense oligonucleotide modulation of STAT3 expression.
 DEFINITION BD272619
 ACCESSION BD272619
 VERSION BD272619.1 GI:33082387
 KEYWORDS JP 2002541784-A/19.
 SOURCE synthetic construct
 ORGANISM synthetic construct
 other sequences; artificial sequences.
 REFERENCE 1 (bases 1 to 20)
 AUTHORS Karras,J.G.
 TITLE Antisense oligonucleotide modulation of STAT3 expression
 JOURNAL Patent: JP 2002541784-A 19 10-DEC-2002;
 COMMENT ISIS PHARMACEUTICALS INC
 OS Artificial Sequence
 PN JP 2002541784-A/19
 PD 10-DEC-2002
 PF 06-APR-2000 JP 2000611544
 PR 08-APR-1999 US 09/288461
 PI JAMES G KARRAS
 PC C12N15/09,A61K31/711,A61K48/00,A61P29/00,A61P35/00,
 PC A61P37/02,
 PC A61P43/00,C12N5/06,C12Q1/02,C12N15/00,C12N5/00 CC Antisense
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 AR531367 AR531367 20 bp DNA linear PAT 08-OCT-2004
 LOCUS Sequence 19 from patent US 6727064.
 DEFINITION AR531367
 ACCESSION AR531367
 VERSION AR531367.1 GI:53919806
 KEYWORDS
 SOURCE Unknown.
 ORGANISM Unknown.
 REFERENCE 1 (bases 1 to 20)
 AUTHORS Karras,J.G.
 TITLE Antisense oligonucleotide modulation of STAT3 expression
 JOURNAL Patent: US 6727064-A 19 27-APR-2004;
 FEATURES Location/Qualifiers
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ORIGIN

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 Db 7 GACTCTTCGAGAA 20

RESULT 4
 DOGP45501 DOGP45501 19 bp DNA linear MAM 22-JAN-1996
 LOCUS Dog (Clone: CXK.455) primer for STS 455, 5' end.
 DEFINITION DOGP45501
 ACCESSION L24340
 VERSION L24340.1 GI:402053
 KEYWORDS PCR identification; PCR primer; STS.
 SEGMENT 1 of 2
 SOURCE Canis familiaris (dog)
 ORGANISM Canis familiaris
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Carnivora; Fissipedia; Canidae; Canis.
 REFERENCE 1 (bases 1 to 19)
 AUTHORS Ostrander,E.A., Mapa,F.A., Yee,M. and Rine,J.
 TITLE One hundred and one new simple sequence repeat-based markers for
 the canine genome
 JOURNAL Mamm. Genome 6 (3), 192-195 (1995)
 MEDLINE 95268214
 PUBMED 7749226
 COMMENT Original source text: Canis familiaris (library: E. Ostrander, in
 pBUEScript+) adult spleen DNA.
 Submitted by:
 Fred Hutchinson Cancer Research Center
 Transplantation Biology Dept
 1124 Columbia; Mailstop M318
 Seattle, WA 98104, USA
 e-mail: EOstrander@bl.gov
 PCR Buffer: PCR buffer (Perkin-Elmer/Cetus)
 PCR Profile: Denaturation: 94 degrees C for 1.00 minute
 Annealing: 55 or 59 degrees C for 0.45 minutes
 Polymerization: 74 degrees C for 1.00 minutes

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PCR Cycles: 33
Final Extension: 74 degrees C for 5.00 minutes.
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RESULT 5
BD228539 20 bp DNA linear PAT 17-JUL-2003
LOCUS
DEFINITION IL-17 homologous polypeptide and its application to remedy.
ACCESSION BD228539
VERSION BD228539.1 GI:33038309
KEYWORDS JP 2002515246-A/134.
SOURCE unclassified
ORGANISM unclassified
REFERENCE 1 (bases 1 to 20)
AUTHORS Chen, J., Filvaroff, E., Goddard, A., Gurney, A.L., Li, H. and Wood, W.I.
TITLE IL-17 homologous polypeptide and its application to remedy
JOURNAL Patent: JP 2002515246-A 134 28-MAY-2002;
GENENTECH INC
COMMENT
  OS Unidentified
  PN JP 2002515246-A/134
  PD 28-MAY-2002
  PF 14-MAY-1999 JP 2000549734
  PR 15-MAY-1998 US 60/085579, 23-DEC-1998 US 60/113621 PI
  JIAN CHEN, ELLEN FILVAROFF, AUDLEY GODDARD, AUSTIN L GURNEY, PI
  HANZHONG LI,
  PI WILLIAM I WOOD
  PC C12N15/09, A61K38/21, A61K45/00, A61P19/00, C07K14/52, C07K16/24,
  PC C07K19/00,
  PC C12N1/19, C12N1/21, C12N5/10, C12P21/02, C12P21/08, C12Q1/00 PC
  , C12Q1/68, C12N15/00,
  PC A61K37/66, C12N5/00
  CC Strandedness: Single;
  CC Topology: Linear;
  CC IL-17 homologous polypeptide and its application to remedy FH
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    Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

  QY 4 TCTTCAGGAGCGGC 19
  DB 1 TCTTCAGGAGCTGC 16

RESULT 6
BD228539 20 bp DNA linear PAT 17-JUL-2003
LOCUS
DEFINITION IL-17 homologous polypeptide and its application to remedy.
ACCESSION BD228539
VERSION BD228539.1 GI:33038309
KEYWORDS JP 2002515246-A/134.
SOURCE unclassified
ORGANISM unclassified
REFERENCE 1 (bases 1 to 20)
AUTHORS Chen, J., Filvaroff, E., Goddard, A., Gurney, A.L., Li, H. and Wood, W.I.
TITLE IL-17 homologous polypeptide and its application to remedy
JOURNAL Patent: JP 2002515246-A 134 28-MAY-2002;
GENENTECH INC
COMMENT
  OS Unidentified
  PN JP 2002515246-A/134
  PD 28-MAY-2002
  PF 14-MAY-1999 JP 2000549734
  PR 15-MAY-1998 US 60/085579, 23-DEC-1998 US 60/113621 PI
  JIAN CHEN, ELLEN FILVAROFF, AUDLEY GODDARD, AUSTIN L GURNEY, PI
  HANZHONG LI,
  PI WILLIAM I WOOD
  PC C12N15/09, A61K38/21, A61K45/00, A61P19/00, C07K14/52, C07K16/24,
  PC C07K19/00,
  PC C12N1/19, C12N1/21, C12N5/10, C12P21/02, C12P21/08, C12Q1/00 PC
  , C12Q1/68, C12N15/00,
  PC A61K37/66, C12N5/00
  CC Strandedness: Single;
  CC Topology: Linear;
  CC IL-17 homologous polypeptide and its application to remedy FH
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    Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

  QY 4 TCTTCAGGAGCGGC 19
  DB 1 TCTTCAGGAGCTGC 16

RESULT 7
CQ798932/c 20 bp DNA linear PAT 28-APR-2004
LOCUS
DEFINITION Sequence 13 from Patent WO2004031412.
ACCESSION CQ798932
VERSION CQ798932.1 GI:46847945
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE 1
AUTHORS Nakamura, Y. and Katagiri, T.
TITLE Method for diagnosing pancreatic cancer
JOURNAL Patent: WO 2004031412-A 13 15-APR-2004;
Oncotherapy Science, Inc. (JP); Japan as represented by the
president of the university of Tokyo (JP)
FEATURES
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    Best Local Similarity 78.9%; Pred. No. 4.7e+05;
    Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

  QY 2 ACTCTTGACGAGCGGCT 20
  DB 20 AATCTCCAGGAAGCTGCT 2

RESULT 8
A89364 17 bp DNA linear PAT 22-JAN-2000
LOCUS
DEFINITION Sequence 1512 from Patent WO9833904.
ACCESSION A89364
VERSION A89364.1 GI:6737934
KEYWORDS unidentified
SOURCE unidentified
ORGANISM unclassified.
REFERENCE 1 (bases 1 to 17)

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Best Local Similarity 92.9%; Pred. No. 6e+05;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 5 CTTCGAGGAGCGG 18
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Db 3 CTGCAGGAGCGG 16

RESULT 13
AR098941/c
LOCUS AR098941 20 bp DNA linear PAT 14-FEB-2001
DEFINITION Sequence 77 from patent US 6077685.
ACCESSION AR098941
VERSION AR098941.1 GI:12808707
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 20)
AUTHORS Trofatter,J.A., MacCollin,M.M. and Gusella,J.F.
TITLE Tumor suppressor merlin and antibodies thereof
JOURNAL Patent: US 6077685-A 77 20-JUN-2000;
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Query Match 62.0%; Score 12.4; DB 6; Length 20;
Best Local Similarity 92.9%; Pred. No. 5.9e+05;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 CTCTTCGAGGAGC 16
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Db 15 CTCTTCGAGGTAGC 2

RESULT 14
AR164768/c
LOCUS AR164768 20 bp DNA linear PAT 17-OCT-2001
DEFINITION Sequence 79 from patent US 6274332.
ACCESSION AR164768
VERSION AR164768.1 GI:16237937
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 20)
AUTHORS Keating,M.T., Sanguinetti,M.C. and Splawski,I.
TITLE Mutations in the KCNE1 gene encoding human minK which cause
arrhythmia susceptibility thereby establishing KCNE1 as an LQT gene
JOURNAL Patent: US 6274332-A 79 14-AUG-2001;
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Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 TGCAGGAGCGGCT 20
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Db 18 TGCAGGAGCGGAT 5

RESULT 15
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LOCUS BD222879 20 bp DNA linear PAT 17-JUL-2003
DEFINITION KVLQT1-QT extension syndrome.
ACCESSION BD222879
VERSION BD222879.1 GI:33032649
KEYWORDS JP 2002521045-A/77.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 20)
KVLQT1-QT extension syndrome
Patent: JP 2002521045-A 77 16-JUL-2002;
UNIVERSITY OF UTAH RESEARCH FOUNDATION,GENZYME CORP
OS Homo sapiens (human)
PN JP 2002521045-A/77
PD 16-JUL-2002
PF 12-MAY-1999 JP 2000562052
PR 29-JUL-1998 US 60/094477 17-AUG-1998 US 09/135010 PI
MARK T KEATING,MICHAEL C SANGUINETTI,MARK E KARAN,GREGORY M PI
LANDES,
PI TIMOTHY D CONNORS,TIMOTHY C BURN,IGOR SPLAWSKI PC
C12N15/09,A01K67/027,C07K14/46,C07K14/47,C07K16/18,C12N1/15, PC
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PC
C12N1/21,C12N5/10,C12P21/08,C12Q1/02,C12Q1/68,G01N33/15,G01N33/68,
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PC G01N33/53,G01N33/53,G01N33/566,G01N33/577,G01N33/58,G01N33/68,
PC C12N15/00,
PC C12N5/00
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QY 7 TGCAGGAGCGGCT 20
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Db 18 TGCAGGAGCGGAT 5

RESULT 16
I79781/c
LOCUS I79781 20 bp DNA linear PAT 10-JUN-1998
DEFINITION Sequence 77 from patent US 5707863.
ACCESSION I79781
VERSION I79781.1 GI:3208071
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 20)
AUTHORS Trofatter,J.A., MacCollin,M.M. and Gusella,J.F.
TITLE Tumor suppressor gene merlin
JOURNAL Patent: US 5707863-A 77 13-JAN-1998;
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Db 15 CTCCTGCAGGTAGC 2

RESULT 17
AR218732/c
LOCUS AR218732 20 bp DNA linear PAT 25-SEP-2002
DEFINITION Sequence 79 from patent US 6420124.
ACCESSION AR218732
VERSION AR218732.1 GI:23319627
KEYWORDS
SOURCE
ORGANISM
REFERENCE 1 (bases 1 to 20)
AUTHORS Keating,M.T., Sanguinetti,M.C., Curran,M.E., Landes,G.M.,
          Connors,T.D., Burn,T.C. and Splawski,I.
TITLE KVLQT1--a long QT syndrome gene
JOURNAL Patent: US 6420124-A 79 16-JUN-2002;
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Db 18 TGCAGGAAGCGGAT 5

RESULT 18
AR223147/c
LOCUS AR223147 20 bp DNA linear PAT 26-SEP-2002
DEFINITION Sequence 79 from patent US 6432644.
ACCESSION AR223147
VERSION AR223147.1 GI:23331000
KEYWORDS
SOURCE
ORGANISM
REFERENCE 1 (bases 1 to 20)
AUTHORS Keating,M.T., Sanguinetti,M.C. and Splawski,I.
TITLE Mutations in the KCNE1 gene encoding human mink which cause
          arrhythmia susceptibility thereby establishing KCNE1 as an LQT gene
JOURNAL Patent: US 6432644-A 79 13-AUG-2002;
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Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 7 TGCAGGAAGCGGCT 20
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Db 18 TGCAGGAAGCGGAT 5

RESULT 19
AR229909/c
LOCUS AR229909 20 bp DNA linear PAT 20-DEC-2002
DEFINITION Sequence 79 from patent US 6451534.
ACCESSION AR229909
VERSION AR229909.1 GI:27269787
KEYWORDS
SOURCE
ORGANISM
REFERENCE 1 (bases 1 to 20)
AUTHORS Keating,M.T., Sanguinetti,M.C., Curran,M.E., Landes,G.M.,
          Connors,T.D., Burn,T.C. and Splawski,I.
TITLE KVLQT1--a long QT syndrome gene
JOURNAL Patent: US 6451534-A 79 17-SEP-2002;
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Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Db 18 TGCAGGAAGCGGAT 5

RESULT 21
AR344603/c
LOCUS AR344603 20 bp DNA linear PAT 17-AUG-2003
DEFINITION Sequence 79 from patent US 6582913.
ACCESSION AR344603
VERSION AR344603.1 GI:33740672
KEYWORDS
SOURCE
ORGANISM
REFERENCE 1 (bases 1 to 20)
AUTHORS Keating,M.T., Sanguinetti,M.C., Curran,M.E., Landes,G.M.,
          Connors,T.D., Burn,T.C. and Splawski,I.
TITLE Diagnostic method for KVLQT1--a long QT syndrome gene
JOURNAL Patent: US 6582913-A 79 24-JUN-2003;
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Best Local Similarity 92.9%; Pred. No. 5.9e+05;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 7 TCGAGGAGCGGCT 20
Db 18 TGCAGGAGCGGAT 5
RESULT 22
LOCUS CQ623374 17 bp DNA linear PAT 02-FEB-2004
DEFINITION CQ623374 Sequence 8114 from Patent WO0192524.
ACCESSION CQ623374
VERSION CQ623374.1 GI:41673592
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
REFERENCE
AUTHORS Gu, Y., Ji, Y., Penn, S.G., Hanzel, D.K., Rank, D.R., Chen, W. and Shannon, M.E.
TITLE Myosin-like gene expressed in human heart and muscle
JOURNAL Patent: WO 0192524-A 8114 06-DEC-2001; Aeomica, Inc. (US)
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QY 4 TCTTGCGAGGCGGCT 20
Db 1 TCTTGCGAGGCGGCT 17
RESULT 23
LOCUS AR464437 17 bp DNA linear PAT 20-FEB-2004
DEFINITION AR464437 Sequence 8114 from patent US 6886188.
ACCESSION AR464437
VERSION AR464437.1 GI:42699494
KEYWORDS Unknown.
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE
AUTHORS Gu, Y., Ji, Y., Penn, S.G., Hanzel, D.K., Rank, D.R., Chen, W. and Shannon, M.E.
TITLE Polynucleotide encoding a human myosin-like polypeptide expressed predominantly in heart and muscle
JOURNAL Patent: US 6886188-A 8114 03-FEB-2004;
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Best Local Similarity 82.4%; Pred. No. 7.5e+05;
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QY 2 ACTCTTGCGAGGCGG 18
Db 17 ATCTTGCGAGGACGG 1
RESULT 24
LOCUS AX039777/c 18 bp DNA linear PAT 18-NOV-2000
DEFINITION AX039777 Sequence 166 from Patent WO0063441.
ACCESSION AX039777
VERSION AX039777.1 GI:11229806
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE
AUTHORS Hernstadt, C. and Davis, R.E.
TITLE Single nucleotide polymorphisms in mitochondrial genes that segregate with alzheimer's disease
JOURNAL Patent: WO 0063441-A 166 26-OCT-2000; MITOKOR (US)
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QY 2 ACTCTTGCGAGGCGG 18
Db 18 ACTCTTCTAGAGCGG 2
RESULT 25
LOCUS AX130162 19 bp DNA linear PAT 15-MAY-2001
DEFINITION AX130162 Sequence 1380 from Patent WO0130362.
ACCESSION AX130162
VERSION AX130162.1 GI:14136467
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
REFERENCE
AUTHORS Robbins, J.M. and Tritz, R.
TITLE Ribozyme therapy for the treatment of proliferative skin and eye diseases
JOURNAL Patent: WO 0130362-A 1380 03-MAY-2001; IMMUSOL, INC. (US)
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Db 18 ACTCTTCTAGAGCGG 2
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RESULT 26
LOCUS AX674695 17 bp DNA linear PAT 27-MAR-2003
DEFINITION Sequence 3140 from Patent WO03004526.
ACCESSION AX674695
VERSION AX674695.1 GI:29333043
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS Telerman, A., Amson, R. and Tuijinder, M.
TITLE Sequences involved in phenomena of tumour suppression, tumour
reversion, apoptosis and/or resistance to viruses and their use as
medicines
JOURNAL Patent: WO 03004526-A 3140 16-JAN-2003;
Molecular Engines Laboratories (FR)
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LOCUS AX728763/c 17 bp DNA linear PAT 08-MAY-2003
DEFINITION Sequence 397 from Patent WO03025175.
ACCESSION AX728763
VERSION AX728763.1 GI:30508106
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS Telerman, A., Amson, R. and Tuijinder, M.
TITLE Sequences involved in phenomena of tumour suppression, tumour
reversion, apoptosis and/or virus resistance and their use as
medicines
JOURNAL Patent: WO 03025175-A 397 27-MAR-2003;
Molecular Engines Laboratories (FR)
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LOCUS AR296765/c 20 bp DNA linear PAT 12-JUN-2003
DEFINITION Sequence 8500 from patent US 6537751.
ACCESSION AR296765

VERSION AR296765.1 GI:31684049
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 20)
AUTHORS Cohen, D., Chumakov, I. and Blumenfeld, M.
TITLE Biallelic markers for use in constructing a high density
disequilibrium map of the human genome
JOURNAL Patent: US 6537751-A 8500 25-MAR-2003;
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Db 20 GACTTTTGCACCTAAGCAGAT 1
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RESULT 29
LOCUS BD259354 17 bp DNA linear PAT 17-JUL-2003
DEFINITION Regulation of repressor genes using nucleic acid molecules.
ACCESSION BD259354
VERSION BD259354.1 GI:33069124
KEYWORDS JP 2002541795-A/7147.
SOURCE unidentified
ORGANISM unidentified.
REFERENCE 1 (bases 1 to 17)
AUTHORS Blatt, L., Zwick, M., Pavco, P. and Mcswiggen, J.
TITLE Regulation of repressor genes using nucleic acid molecules
JOURNAL Patent: JP 2002541795-A 7147 10-DEC-2002;
RIBOZYME PHARMACEUTICALS INC
COMMENT OS Eukaryote
PS JP 2002541795-A/7147
PD 10-DEC-2002
PF 11-APR-2000 JP 2000611654
PR 12-APR-1999 US 60/129390
PI LAWRENCE BLATT, MICHAEL ZWICK, PAMELA PAVCO, JAMES MCSWIGGEN PC
C12N15/09, A61K38/00, A61K48/00, A61P43/00, A61P43/00, C12N5/10, PC
C12P21/02,
PC
C12P21/02, C12P21/02//A61K31/711, (C12N5/10, C12R1:91), (C12P21/02, PC
C12R1:91),
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Db 3 GACTATTTCAGGAG 17
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RESULT 30
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LOCUS BD259355 17 bp DNA linear PAT 17-JUL-2003
DEFINITION Regulation of repressor genes using nucleic acid molecules.
ACCESSION BD259355
VERSION BD259355.1 GI:33069125
KEYWORDS JP 2002541795-A/7148.
SOURCE unclassified
ORGANISM unclassified.
REFERENCE
AUTHORS 1 (bases 1 to 17)
TITLE Blatt,L., Zwick,M., Pavco,P. and Mcswiggen,J.
JOURNAL Regulation of repressor genes using nucleic acid molecules
PATENT: JP 2002541795-A 7148 10-DEC-2002;
RIBOZYME PHARMACEUTICALS INC
COMMENT
OS Eukaryote
PN JP 2002541795-A/7148
PD 10-DEC-2002
PF 11-APR-2000 JP 2000611654
PR 12-APR-1999 US 60/129390
PI LAWRENCE BLATT,MICHAEL ZWICK,PAMELA PAVCO,JAMES MCSWIGGEN PC
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C12P21/02,
PC
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BD259356
LOCUS BD259356 17 bp DNA linear PAT 17-JUL-2003
DEFINITION Regulation of repressor genes using nucleic acid molecules.
ACCESSION BD259356
VERSION BD259356.1 GI:33069126
KEYWORDS JP 2002541795-A/7149.
SOURCE unclassified
ORGANISM unclassified.
REFERENCE
AUTHORS 1 (bases 1 to 17)
TITLE Blatt,L., Zwick,M., Pavco,P. and Mcswiggen,J.
JOURNAL Regulation of repressor genes using nucleic acid molecules
PATENT: JP 2002541795-A 7149 10-DEC-2002;
RIBOZYME PHARMACEUTICALS INC
COMMENT
OS Eukaryote
PN JP 2002541795-A/7149
PD 10-DEC-2002
PF 11-APR-2000 JP 2000611654
PR 12-APR-1999 US 60/129390
PI LAWRENCE BLATT,MICHAEL ZWICK,PAMELA PAVCO,JAMES MCSWIGGEN PC
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C12P21/02,
PC
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C12R1:91),
PC (C12P21/02,C12R1:91),(C12P21/02,C12R1:91),C12N15/00,C12N5/00,
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DB 2 GACTATTTCAGGAAG 16
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RESULT 32
BD259357
LOCUS BD259357 17 bp RNA linear PAT 07-SEP-2001
DEFINITION Sequence 91 from Patent WO0159103.
ACCESSION AX214649
VERSION AX214649.1 GI:15524692
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE
AUTHORS 1
TITLE Blatt,L., Mcswiggen,J. and Chowrira,B.M.
JOURNAL Method and reagent for the modulation and diagnosis of cd20 and
nogo gene expression
PATENT: WO 0159103-A 91 16-AUG-2001;
RIBOZYME PHARMACEUTICALS, INC. (US); Blatt, Lawrence (US);
MCSwiggen, James (US); Chowrira, Bharat M. (US)
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RESULT 33
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LOCUS BD259358 17 bp RNA linear PAT 07-SEP-2001
DEFINITION Sequence 92 from Patent WO0159103.
ACCESSION AX214650
VERSION AX214650.1 GI:15524693
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE
AUTHORS 1
TITLE Blatt,L., Mcswiggen,J. and Chowrira,B.M.
JOURNAL Method and reagent for the modulation and diagnosis of cd20 and
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nogo gene expression
Patent: WO 0159103-A 92 16-AUG-2001;
RIBOZYME PHARMACEUTICALS, INC. (US); Blatt, Lawrence (US);
McSwiggen, James (US); Chowrira, Bharat M. (US)
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RESULT 34
AX215555/c
LOCUS AX215555 17 bp RNA linear PAT 07-SEP-2001
DEFINITION Sequence 997 from Patent WO0159103.
ACCESSION AX215555
VERSION AX215555.1 GI:15525598
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE
AUTHORS Blatt, L., McSwiggen, J. and Chowrira, B.M.
TITLE Method and reagent for the modulation and diagnosis of cd20 and
nogo gene expression
JOURNAL Patent: WO 0159103-A 997 16-AUG-2001;
RIBOZYME PHARMACEUTICALS, INC. (US); Blatt, Lawrence (US);
McSwiggen, James (US); Chowrira, Bharat M. (US)
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RESULT 35
AX648385/c
LOCUS AX648385 17 bp DNA linear PAT 22-MAR-2003
DEFINITION Sequence 225 from Patent EP1273660.
ACCESSION AX648385
VERSION AX648385.1 GI:29151203
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
AUTHORS Gu, Y.
TITLE Human sodium-hydrogen exchanger like protein 1
JOURNAL Patent: EP 1273660-A 225 08-JAN-2003;
Aeomica, Inc. (US)
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RESULT 36
AX648386/c
LOCUS AX648386 17 bp DNA linear PAT 22-MAR-2003
DEFINITION Sequence 226 from Patent EP1273660.
ACCESSION AX648386
VERSION AX648386.1 GI:29151204
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
AUTHORS Gu, Y.
TITLE Human sodium-hydrogen exchanger like protein 1
JOURNAL Patent: EP 1273660-A 226 08-JAN-2003;
Aeomica, Inc. (US)
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16 TCATGCAAGAAGCGG 2
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RESULT 37
AX648387/c
LOCUS AX648387 17 bp DNA linear PAT 22-MAR-2003
DEFINITION Sequence 227 from Patent EP1273660.
ACCESSION AX648387
VERSION AX648387.1 GI:29151205
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
AUTHORS Gu, Y.
TITLE Human sodium-hydrogen exchanger like protein 1
JOURNAL Patent: EP 1273660-A 227 08-JAN-2003;
Aeomica, Inc. (US)
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RESULT 38
LOCUS AR162450/c
DEFINITION Sequence 130 from patent US 6258600.
ACCESSION AR162450
VERSION AR162450.1 GI:16229633
KEYWORDS
SOURCE Unknown.
ORGANISM Unassigned DNA
REFERENCE 1 (bases 1 to 20)
AUTHORS Zhang, H. and Cowseert, L.M.
TITLE Antisense modulation of caspase 8 expression
JOURNAL Patent: US 6258600-A 130 10-JUL-2001;
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RESULT 39
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DEFINITION Sequence 1738 from Patent WO0129262.
ACCESSION AX116615
VERSION AX116615.1 GI:14033557
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Picoult-Newburg, L. and Pohl, M.
TITLE Genotyping reagents, kits and methods of use thereof
JOURNAL Patent: WO 0129262-A 1738 26-APR-2001;
JOURNAL Orchid Biosciences, Inc. (US)
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RESULT 40
LOCUS AR067594/c
DEFINITION Sequence 1 from patent US 5851769.
ACCESSION AR067594
VERSION AR067594.1 GI:5998816
KEYWORDS
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SOURCE Unknown.
ORGANISM Unassigned DNA
REFERENCE 1 (bases 1 to 20)
AUTHORS Gray, J.W. and Weier, H.-U.G.
TITLE Quantitative DNA fiber mapping
JOURNAL Patent: US 5851769-A 1 22-DEC-1998;
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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

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SUMMARIES

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4	12.4	62.0	20	1	US-08-171-718-77
5	12.4	62.0	20	3	US-08-478-087-77
6	12.4	62.0	20	3	US-09-135-020-79
7	12.4	62.0	20	3	US-09-135-010A-79
8	12.4	62.0	20	3	US-09-444-871-79
9	12.4	62.0	20	3	US-09-597-735-79
10	12.4	62.0	20	3	US-09-444-295-79
11	12.4	62.0	20	3	US-09-597-732-79
12	12.4	62.0	20	4	US-09-597-731-79
13	12.2	61.0	17	4	US-09-866-108A-8114
14	12.2	61.0	19	4	US-09-696-791-1380
15	12	60.0	20	4	US-09-422-978-8500
16	11.8	59.0	20	3	US-09-487-445-130
17	11.6	58.0	20	2	US-08-534-479-1
18	11.6	58.0	20	3	US-09-489-869-49
19	11.6	58.0	20	4	US-09-596-248D-38
20	11.6	58.0	20	4	US-09-596-248D-39
21	11.6	58.0	20	4	US-09-972-115A-29
22	11.4	57.0	17	4	US-09-866-108A-115
23	11.4	57.0	17	4	US-09-866-108A-116
24	11.4	57.0	17	4	US-09-866-108A-117
25	11.4	57.0	17	4	US-09-866-108A-118
26	11.4	57.0	17	4	US-09-866-108A-119
27	11.4	57.0	17	4	US-09-866-108A-6215

c 28	11.4	57.0	17	4	US-09-866-108A-6216	Sequence 6216, Ap
c 29	11.4	57.0	17	4	US-09-866-108A-6217	Sequence 6217, Ap
c 30	11.4	57.0	17	4	US-09-866-108A-6218	Sequence 6218, Ap
c 31	11.4	57.0	17	4	US-09-866-108A-6219	Sequence 6219, Ap
c 32	11.4	57.0	18	2	US-09-256-496-10	Sequence 10, Appl
c 33	11.4	57.0	20	3	US-09-517-584A-11	Sequence 11, Appl
c 34	11.4	57.0	20	3	US-09-467-082-27	Sequence 27, Appl
c 35	11.4	57.0	20	3	US-09-658-687A-51	Sequence 51, Appl
c 36	11.2	56.0	20	4	US-09-198-452A-6247	Sequence 6247, Ap
c 37	11.2	56.0	16	4	US-09-856-662-20	Sequence 20, Appl
c 38	11.2	56.0	17	4	US-09-474-432B-429	Sequence 429, App
c 39	11.2	56.0	17	4	US-09-476-387-428	Sequence 428, App
c 40	11.2	56.0	17	4	US-09-866-108A-7632	Sequence 7632, Ap
c 41	11.2	56.0	17	4	US-09-866-108A-7633	Sequence 7633, Ap
c 42	11.2	56.0	17	4	US-09-866-108A-8113	Sequence 8113, Ap
c 43	11.2	56.0	17	4	US-09-866-108A-8115	Sequence 8115, Ap
c 44	11.2	56.0	19	4	US-09-696-791-1379	Sequence 1379, Ap
c 45	11.2	56.0	20	3	US-09-428-583-39	Sequence 39, Appl
c 46	11	55.0	20	1	US-07-977-284A-82	Sequence 82, Appl
c 47	11	55.0	20	2	US-08-256-426B-82	Sequence 82, Appl
c 48	11	55.0	20	4	US-09-954-560-16	Sequence 16, Appl
c 49	11	55.0	20	4	US-10-029-517-97	Sequence 97, Appl
c 50	11	55.0	20	4	US-09-232-785-386	Sequence 386, App
c 51	10.8	54.0	15	1	US-08-311-760A-57	Sequence 57, Appl
c 52	10.8	54.0	15	1	US-08-311-760A-193	Sequence 193, App
c 53	10.8	54.0	15	2	US-08-774-310-57	Sequence 57, Appl
c 54	10.8	54.0	15	2	US-08-774-310-193	Sequence 193, App
c 55	10.8	54.0	15	4	US-09-474-432B-142	Sequence 142, App
c 56	10.8	54.0	15	4	US-09-476-387-142	Sequence 142, App
c 57	10.8	54.0	17	3	US-08-985-162-216	Sequence 216, App
c 58	10.8	54.0	17	3	US-08-985-162-485	Sequence 485, App
c 59	10.8	54.0	17	4	US-09-474-432B-484	Sequence 484, App
c 60	10.8	54.0	17	4	US-09-371-772B-4578	Sequence 4578, Ap
c 61	10.8	54.0	17	4	US-09-476-387-483	Sequence 483, App
c 62	10.8	54.0	17	4	US-09-401-063-216	Sequence 216, App
c 63	10.8	54.0	17	4	US-09-401-063-485	Sequence 485, App
c 64	10.8	54.0	17	4	US-09-866-108A-7634	Sequence 7634, Ap
c 65	10.8	54.0	17	4	US-09-866-108A-7635	Sequence 7635, Ap
c 66	10.8	54.0	17	4	US-09-866-108A-8116	Sequence 8116, Ap
c 67	10.8	54.0	17	4	US-09-866-108A-8117	Sequence 8117, Ap
c 68	10.8	54.0	18	4	US-09-877-177A-1	Sequence 1, Appl
c 69	10.8	54.0	18	4	US-09-663-834A-47	Sequence 47, Appl
c 70	10.8	54.0	19	3	US-09-676-610B-18	Sequence 18, Appl
c 71	10.8	54.0	19	4	US-09-696-791-3517	Sequence 3517, Ap
c 72	10.8	54.0	19	4	US-09-696-791-3518	Sequence 3518, Ap
c 73	10.8	54.0	20	2	US-08-809-297-39	Sequence 39, Appl
c 74	10.8	54.0	20	3	US-09-226-012-30	Sequence 30, Appl
c 75	10.8	54.0	20	3	US-09-489-368A-93	Sequence 93, Appl
c 76	10.8	54.0	20	3	US-09-489-868A-35	Sequence 35, Appl
c 77	10.8	54.0	20	3	US-09-702-251-44	Sequence 44, Appl
c 78	10.8	54.0	20	3	US-09-844-634-173	Sequence 173, App
c 79	10.8	54.0	20	4	US-09-629-644A-93	Sequence 93, Appl
c 80	10.8	54.0	20	4	US-09-595-684B-18	Sequence 18, Appl
c 81	10.8	54.0	20	4	US-09-198-452A-1521	Sequence 1521, Ap
c 82	10.8	54.0	20	4	US-09-629-644A-93	Sequence 93, Appl
c 83	10.8	54.0	20	4	US-10-177-573-25	Sequence 25, Appl
c 84	10.6	53.0	17	3	US-08-679-645-821	Sequence 821, App
c 85	10.6	53.0	17	4	US-09-866-108A-6214	Sequence 6214, Ap
c 86	10.6	53.0	17	4	US-09-866-108A-7631	Sequence 7631, Ap
c 87	10.6	53.0	17	4	US-09-866-108A-8112	Sequence 8112, Ap
c 88	10.6	53.0	19	4	US-09-161-244-25	Sequence 25, Appl
c 89	10.6	53.0	20	1	US-07-940-242A-12	Sequence 12, Appl
c 90	10.6	53.0	20	1	US-08-157-235-9	Sequence 9, Appl
c 91	10.6	53.0	20	1	US-08-244-118B-25	Sequence 25, Appl
c 92	10.6	53.0	20	1	US-08-832-172-3	Sequence 3, Appl
c 93	10.6	53.0	20	2	US-08-242-580-3	Sequence 3, Appl
c 94	10.6	53.0	20	2	US-08-470-426B-6	Sequence 6, Appl
c 95	10.6	53.0	20	2	US-08-337-925-3	Sequence 3, Appl
c 96	10.6	53.0	20	2	US-09-167-921-29	Sequence 29, Appl
c 97	10.6	53.0	20	3	US-08-647-924-44	Sequence 44, Appl
c 98	10.6	53.0	20	3	US-08-323-743-29	Sequence 29, Appl
c 99	10.6	53.0	20	4	US-09-216-393B-161	Sequence 161, App

ALIGNMENTS

RESULT 1

US-09-288-461-19
; Sequence 19, Application US/09288461
; Patent No. 6159694
; GENERAL INFORMATION:
; APPLICANT: Karras, James G.
; TITLE OF INVENTION: Antisense Oligonucleotide Modulation of STAT3
; FILE REFERENCE: ISPH-0338
; CURRENT APPLICATION NUMBER: US/09/288,461
; CURRENT FILING DATE: 1999-04-08
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 19
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-288-461-19

Query Match 70.0%; Score 14; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 9.3e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GACTCTTCAGGAA 14
|||||
Db 7 GACTCTTCAGGAA 20

RESULT 2

US-09-758-881-19
; Sequence 19, Application US/09758881
; Patent No. 6727064
; GENERAL INFORMATION:
; APPLICANT: Karras, James G.
; TITLE OF INVENTION: Antisense Oligonucleotide Modulation of STAT3
; FILE REFERENCE: ISPH-0532
; CURRENT APPLICATION NUMBER: US/09/758,881
; CURRENT FILING DATE: 2001-01-11
; PRIOR APPLICATION NUMBER: PCT/US00/09054
; PRIOR FILING DATE: 2000-04-06
; PRIOR APPLICATION NUMBER: 09/288,461
; PRIOR FILING DATE: 1999-04-08
; NUMBER OF SEQ ID NOS: 152
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 19
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-758-881-19

Query Match 70.0%; Score 14; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 9.3e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GACTCTTCAGGAA 14
|||||
Db 7 GACTCTTCAGGAA 20

RESULT 3

US-09-081-385-134
; Sequence 134, Application US/09081385
; Patent No. 6593456

; GENERAL INFORMATION:
; APPLICANT: Gatanaga, T.
; APPLICANT: Granger, G.A.
; TITLE OF INVENTION: Factors Altering Tumor Necrosis
; TITLE OF INVENTION: Factor Receptor Releasing Enzyme Activity, and Methods
; TITLE OF INVENTION: of Use Thereof
; NUMBER OF SEQUENCES: 154
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORRISON & FOERSTER
; STREET: 755 PAGE MILL ROAD
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304-1018
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows
; SOFTWARE: FastSEQ for Windows Version 2.0b
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/081,385
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/964,747
; FILING DATE: 05-NOV-1997
; APPLICATION NUMBER: 60/030,761
; FILING DATE: 06-NOV-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Wu, Frank
; REGISTRATION NUMBER: 41,386
; REFERENCE/DOCKET NUMBER: 22000-20577.21
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-813-5600
; TELEFAX: 650-494-0792
; TELEX: 706141
; INFORMATION FOR SEQ ID NO: 134:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-09-081-385-134

Query Match 64.0%; Score 12.8; DB 4; Length 20;
Best Local Similarity 87.5%; Pred. No. 3.8e+03;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 4 TCTTTCAGGAAGCGGC 19
|||||
Db 1 TCTTTCAGGAAGCTGC 16

RESULT 4

US-08-171-718-77/c
; Sequence 77, Application US/08171718
; Patent No. 5707863
; GENERAL INFORMATION:
; APPLICANT: Trofatter, James A.
; APPLICANT: MacCollin, Mia M.
; APPLICANT: Gusella, James F.
; TITLE OF INVENTION: Tumor Suppressor Gene Merlin and Uses
; TITLE OF INVENTION: Thereof
; NUMBER OF SEQUENCES: 120
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sterne, Kessler, Goldstein & Fox
; STREET: 1100 New York Avenue, N.W., Suite 600
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20005-3934
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/171,718
FILING DATE: 22-DEC-1993
CLASSIFICATION: 436
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/108,808
FILING DATE: 19-AUG-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/022,034
FILING DATE: 25-FEB-1993
APPLICATION NUMBER: US 08/026,063
FILING DATE: 04-MAR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Brown, Anne
REGISTRATION NUMBER: 36,463
REFERENCE/DOCKET NUMBER: 0609.3850003
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 77:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-171-718-77

Query Match 62.0%; Score 12.4; DB 1; Length 20;
Best Local Similarity 92.9%; Pred. No. 6e+03;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 CTCCTGCAGGAGC 16
Db 15 CTCCTGCAGGTAGC 2

RESULT 5
US-08-478-087-77/c
Sequence 77, Application US/08478087
Patent No. 6077685
GENERAL INFORMATION:
APPLICANT: Trofatter, James A.
APPLICANT: MacCollin, Mia M.
APPLICANT: Gusella, James F.
TITLE OF INVENTION: Tumor Suppressor Gene Merlin and Uses
TITLE OF INVENTION: Thereof
NUMBER OF SEQUENCES: 120
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sterne, Kessler, Goldstein & Fox
STREET: 1100 New York Avenue, N.W., Suite 600
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20005-3934
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/478,087
FILING DATE: 07-JUN-1995
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/171,718
FILING DATE: 22-DEC-1993
APPLICATION NUMBER: US 08/108,808
FILING DATE: 19-AUG-1993
PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/022,034
FILING DATE: 25-FEB-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/026,063
FILING DATE: 04-MAR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Brown, Anne
REGISTRATION NUMBER: 36,463
REFERENCE/DOCKET NUMBER: 0609.3850003
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 77:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-478-087-77

Query Match 62.0%; Score 12.4; DB 3; Length 20;
Best Local Similarity 92.9%; Pred. No. 6e+03;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 CTCCTGCAGGAGC 16
Db 15 CTCCTGCAGGTAGC 2

RESULT 6
US-09-135-020-79/c
Sequence 79, Application US/09135020
Patent No. 6274332
GENERAL INFORMATION:
APPLICANT: Keating, Mark T.
APPLICANT: Sanguinetti, Michael C.
APPLICANT: Splawski, Igor
TITLE OF INVENTION: MUTATIONS IN THE KCNE1 GENE ENCODING HUMAN minK WHICH
TITLE OF INVENTION: CAUSE ARRHYTHMIA SUSCEPTIBILITY THEREBY ESTABLISHING
TITLE OF INVENTION: KCNE1 AS AN LQT GENE
FILE REFERENCE: 2323-131
CURRENT APPLICATION NUMBER: US/09/135,020
CURRENT FILING DATE: 1998-08-17
EARLIER APPLICATION NUMBER: 08/921,068
EARLIER FILING DATE: 1997-08-29
EARLIER APPLICATION NUMBER: 08/739,383
EARLIER FILING DATE: 1996-10-29
EARLIER APPLICATION NUMBER: 60/019,014
EARLIER FILING DATE: 1995-12-22
EARLIER APPLICATION NUMBER: 60/094,477
EARLIER FILING DATE: 1998-07-29
NUMBER OF SEQ ID NOS: 114
SOFTWARE: Patent In Ver. 2.0
SEQ ID NO 79
LENGTH: 20
TYPE: DNA
ORGANISM: Homo sapiens
US-09-135-020-79

Query Match 62.0%; Score 12.4; DB 3; Length 20;
Best Local Similarity 92.9%; Pred. No. 6e+03;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 TCGAGGAGCGGCT 20
Db 18 TCGAGGAGCGGAT 5

RESULT 7
US-09-135-010A-79/c
Sequence 79, Application US/09135010A
Patent No. 6277978
GENERAL INFORMATION:

```
; APPLICANT: Keating, Mark T.
; APPLICANT: Sanguinetti, Michael C.
; APPLICANT: Curran, Mark E.
; APPLICANT: Landes, Gregory M.
; APPLICANT: Connors, Timothy D.
; APPLICANT: Burn, Timothy C.
; APPLICANT: Splawski, Igor
; TITLE OF INVENTION: KVLQT1 - A LONG QT SYNDROME GENE
; FILE REFERENCE: 2323-133
; CURRENT APPLICATION NUMBER: US/09/135,010A
; CURRENT FILING DATE: 1998-08-17
; PRIOR FILING DATE: 1998-07-29
; PRIOR APPLICATION NUMBER: 08/921,068
; PRIOR FILING DATE: 1997-08-29
; PRIOR APPLICATION NUMBER: 08/739,383
; PRIOR FILING DATE: 1996-10-29
; PRIOR APPLICATION NUMBER: 60/019,014
; PRIOR FILING DATE: 1995-12-22
; NUMBER OF SEQ ID NOS: 116
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 79
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-135-010A-79

Query Match      62.0%; Score 12.4; DB 3; Length 20;
Best Local Similarity 92.9%; Pred. No. 6e+03;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      7 TGCAGGAAGCGGCT 20
Db      18 TGCAGGAAGCGGAT 5

RESULT 8
US-09-444-871-79/c
; Sequence 79, Application US/09444871
; Patent No. 6323026
; GENERAL INFORMATION:
; APPLICANT: Keating, Mark T.
; APPLICANT: Sanguinetti, Michael C.
; APPLICANT: Splawski, Igor
; TITLE OF INVENTION: MUTATIONS IN THE KCNE1 GENE ENCODING HUMAN MINK WHICH
; TITLE OF INVENTION: CAUSE ARRHYTHMIA SUSCEPTIBILITY THEREBY ESTABLISHING
; TITLE OF INVENTION: KCNE1 AS AN LQT GENE
; FILE REFERENCE: 2323-131
; CURRENT APPLICATION NUMBER: US/09/444,871
; CURRENT FILING DATE: 1999-11-22
; EARLIER APPLICATION NUMBER: US 09/135,020
; EARLIER FILING DATE: 1998-08-17
; EARLIER APPLICATION NUMBER: 08/921,068
; EARLIER FILING DATE: 1997-08-29
; EARLIER APPLICATION NUMBER: 08/739,383
; EARLIER FILING DATE: 1996-10-29
; EARLIER APPLICATION NUMBER: 60/019,014
; EARLIER FILING DATE: 1995-12-22
; EARLIER APPLICATION NUMBER: 60/094,477
; EARLIER FILING DATE: 1998-07-29
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 79
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-444-871-79

Query Match      62.0%; Score 12.4; DB 3; Length 20;
Best Local Similarity 92.9%; Pred. No. 6e+03;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      7 TGCAGGAAGCGGCT 20
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Db      18 TGCAGGAAGCGGAT 5

RESULT 9
US-09-597-735-79/c
; Sequence 79, Application US/09597735
; Patent No. 6420124
; GENERAL INFORMATION:
; APPLICANT: Keating, Mark T.
; APPLICANT: Sanguinetti, Michael C.
; APPLICANT: Curran, Mark E.
; APPLICANT: Landes, Gregory M.
; APPLICANT: Connors, Timothy D.
; APPLICANT: Burn, Timothy C.
; APPLICANT: Splawski, Igor
; TITLE OF INVENTION: KVLQT1 - A LONG QT SYNDROME GENE
; FILE REFERENCE: 2323-133
; CURRENT APPLICATION NUMBER: US/09/597,735
; CURRENT FILING DATE: 2000-06-19
; EARLIER APPLICATION NUMBER: 09/135,010
; EARLIER FILING DATE: 1998-08-17
; EARLIER APPLICATION NUMBER: 60/094,477
; EARLIER FILING DATE: 1998-07-29
; EARLIER APPLICATION NUMBER: 08/921,068
; EARLIER FILING DATE: 1997-08-29
; EARLIER APPLICATION NUMBER: 08/739,383
; EARLIER FILING DATE: 1996-10-29
; EARLIER APPLICATION NUMBER: 60/019,014
; EARLIER FILING DATE: 1995-12-22
; NUMBER OF SEQ ID NOS: 116
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 79
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-597-735-79

Query Match      62.0%; Score 12.4; DB 3; Length 20;
Best Local Similarity 92.9%; Pred. No. 6e+03;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      7 TGCAGGAAGCGGCT 20
Db      18 TGCAGGAAGCGGAT 5

RESULT 10
US-09-444-295-79/c
; Sequence 79, Application US/09444295
; Patent No. 6432844
; GENERAL INFORMATION:
; APPLICANT: Keating, Mark T.
; APPLICANT: Sanguinetti, Michael C.
; APPLICANT: Splawski, Igor
; TITLE OF INVENTION: MUTATIONS IN THE KCNE1 GENE ENCODING HUMAN MINK WHICH
; TITLE OF INVENTION: CAUSE ARRHYTHMIA SUSCEPTIBILITY THEREBY ESTABLISHING
; TITLE OF INVENTION: KCNE1 AS AN LQT GENE
; FILE REFERENCE: 2323-131
; CURRENT APPLICATION NUMBER: US/09/444,295
; CURRENT FILING DATE: 1999-11-22
; PRIOR APPLICATION NUMBER: 09/135,020
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: 08/921,068
; PRIOR FILING DATE: 1997-08-29
; PRIOR APPLICATION NUMBER: 08/739,383
; PRIOR FILING DATE: 1996-10-29
; PRIOR APPLICATION NUMBER: 60/019,014
; PRIOR FILING DATE: 1995-12-22
; PRIOR APPLICATION NUMBER: 60/094,477
; PRIOR FILING DATE: 1998-07-29
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: PatentIn Ver. 2.0
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; SEQ ID NO 79
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-444-295-79

Query Match 62.0%; Score 12.4; DB 3; Length 20;
Best Local Similarity 92.9%; Pred. No. 6e+03;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 TGCAGGAAGCGCT 20
||| ||||| |||||
DB 18 TGCAGGAAGCGGAT 5

RESULT 11

US-09-597-732-79/c
; Sequence 79, Application US/09597732
; Patent No. 6451534
; GENERAL INFORMATION:

; APPLICANT: Keating, Mark T.
; APPLICANT: Sanguinetti, Michael C.
; APPLICANT: Curran, Mark E.
; APPLICANT: Landes, Gregory M.
; APPLICANT: Connors, Timothy D.
; APPLICANT: Burn, Timothy C.
; APPLICANT: Splawski, Igor
; TITLE OF INVENTION: KVLQT1 - A LONG QT SYNDROME GENE

; FILE REFERENCE: 2323-133
; CURRENT APPLICATION NUMBER: US/09/597,732

; CURRENT FILING DATE: 2000-06-19
; PRIOR APPLICATION NUMBER: 09/135,010
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: 60/094,477
; PRIOR FILING DATE: 1998-07-29
; PRIOR APPLICATION NUMBER: 08/921,068
; PRIOR FILING DATE: 1997-08-29
; PRIOR APPLICATION NUMBER: 08/739,383
; PRIOR FILING DATE: 1996-10-29
; PRIOR APPLICATION NUMBER: 60/019,014
; PRIOR FILING DATE: 1995-12-22
; NUMBER OF SEQ ID NOS: 116
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 79
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-597-732-79

Query Match 62.0%; Score 12.4; DB 3; Length 20;
Best Local Similarity 92.9%; Pred. No. 6e+03;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 TGCAGGAAGCGCT 20
||| ||||| |||||
DB 18 TGCAGGAAGCGGAT 5

RESULT 12

US-09-597-731-79/c
; Sequence 79, Application US/09597731
; Patent No. 6582913
; GENERAL INFORMATION:

; APPLICANT: Keating, Mark T.
; APPLICANT: Sanguinetti, Michael C.
; APPLICANT: Curran, Mark E.
; APPLICANT: Landes, Gregory M.
; APPLICANT: Connors, Timothy D.
; APPLICANT: Burn, Timothy C.
; APPLICANT: Splawski, Igor
; TITLE OF INVENTION: KVLQT1 - A LONG QT SYNDROME GENE
; FILE REFERENCE: 2323-133
; CURRENT APPLICATION NUMBER: US/09/597,731

; CURRENT FILING DATE: 2000-06-19
; PRIOR APPLICATION NUMBER: 09/135,010
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: 08/921,068
; PRIOR FILING DATE: 1997-08-29
; PRIOR APPLICATION NUMBER: 08/739,383
; PRIOR FILING DATE: 1996-10-29
; PRIOR APPLICATION NUMBER: 60/019,014
; PRIOR FILING DATE: 1995-12-22
; NUMBER OF SEQ ID NOS: 116
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 79
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-597-731-79

Query Match 62.0%; Score 12.4; DB 4; Length 20;
Best Local Similarity 92.9%; Pred. No. 6e+03;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 TGCAGGAAGCGCT 20
||| ||||| |||||
DB 18 TGCAGGAAGCGGAT 5

RESULT 13

US-09-866-108A-8114
; Sequence 8114, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEWICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A

; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Acomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 8114
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-8114

Query Match 61.0%; Score 12.2; DB 4; Length 17;

Best Local Similarity 82.4%; Pred. No. 7.4e+03;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 4 TCTTGCAGGAGCGGCT 20
Db 1 TCCTGCCAGGAGCGGCT 17

RESULT 14
US-09-696-791-1380/c
; Sequence 1380, Application US/09696791
; Patent No. 6770633
; GENERAL INFORMATION:
; APPLICANT: Robbins, Joan M.
; APPLICANT: Tritz, Richard
; TITLE OF INVENTION: RIBOZYME THERAPY FOR THE TREATMENT OF PROLIFERATIVE
; TITLE OF INVENTION: SKIN AND EYE DISEASES
; FILE REFERENCE: 480124.407
; CURRENT APPLICATION NUMBER: US/09/696,791
; CURRENT FILING DATE: 2000-10-25
; NUMBER OF SEQ ID NOS: 4523
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1380
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Cdk-we-hu ribozyme binding site

US-09-696-791-1380

Query Match 61.0%; Score 12.2; DB 4; Length 19;
Best Local Similarity 82.4%; Pred. No. 7.5e+03;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 2 ACTCTTCAGGAGCGG 18
Db 18 ACTCTTCTAGAGCGG 2

RESULT 15
US-09-422-978-8500/c
; Sequence 8500, Application US/09422978
; Patent No. 6537751
; GENERAL INFORMATION:
; APPLICANT: Cohen, Daniel
; APPLICANT: Blumenfeld, Marta
; APPLICANT: Chumakov, Ilya
; TITLE OF INVENTION: Biallelic markers for use in constructing a high density...
; FILE REFERENCE: GENSET.020CP1
; CURRENT APPLICATION NUMBER: US/09/422,978
; CURRENT FILING DATE: 1999-10-20
; EARLIER APPLICATION NUMBER: US 09/298,850
; EARLIER FILING DATE: 1999-04-21
; EARLIER APPLICATION NUMBER: US 60/109,732
; EARLIER FILING DATE: 1998-11-23
; EARLIER APPLICATION NUMBER: US 60/082,614
; EARLIER FILING DATE: 1998-04-21
; NUMBER OF SEQ ID NOS: 11796
; SEQ ID NO 8500
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: primer_bind
; LOCATION: 1..20
; OTHER INFORMATION: downstream amplification primer 99-15968 for SEQ 635, in complete

US-09-422-978-8500

Query Match 60.0%; Score 12; DB 4; Length 20;
Best Local Similarity 75.0%; Pred. No. 9.6e+03;
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 GACTCTTCAGGAGCGGCT 20

Db 20 GACTTTTGCACTAAGCAGAT 1

RESULT 16
US-09-487-445-130/c
; Sequence 130, Application US/09487445
; Patent No. 6258600
; GENERAL INFORMATION:
; APPLICANT: Hong Zhang
; APPLICANT: Lex M. Cowser
; TITLE OF INVENTION: ANTISENSE MODULATION OF CASPASE 8 EXPRESSION
; FILE REFERENCE: RTS-0107
; CURRENT APPLICATION NUMBER: US/09/487,445
; CURRENT FILING DATE: 2000-01-19
; NUMBER OF SEQ ID NOS: 176
; SEQ ID NO 130
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide

US-09-487-445-130

Query Match 59.0%; Score 11.8; DB 3; Length 20;
Best Local Similarity 86.7%; Pred. No. 1.2e+04;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GACTCTTCAGGAG 15
Db 15 GAGTCTTGAAGGAAG 1

RESULT 17
US-08-534-479-1/c
; Sequence 1, Application US/08534479
; Patent No. 5851769
; GENERAL INFORMATION:
; APPLICANT: GRAY, JOE W.
; APPLICANT: WEIER, HEINZ-ULRICH G.
; TITLE OF INVENTION: QUANTITATIVE FIBER MAPPING
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MEDLEN & CARROLL
; STREET: 220 MONTGOMERY STREET, SUITE 2200
; CITY: SAN FRANCISCO
; STATE: CA
; COUNTRY: USA
; ZIP: 94104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/534,479
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: MACKNIGHT, KAMRIN T.
; REGISTRATION NUMBER: 38,230
; REFERENCE/DOCKET NUMBER: LBL-01754
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 705-8410
; TELEFAX: (415) 397-8338
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)

US-08-534-479-1


```
RESULT 22
US-09-866-108A-115
; Sequence 115, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aeomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 115
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-115

Query Match          57.0%; Score 11.4; DB 4; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.9e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      4 TCTTGCAGGAAGC 16
      ||| |||||
DB      5 TCTGGCAGGAAGC 17

RESULT 23
US-09-866-108A-116
; Sequence 116, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/236,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aeomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 115
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-115

Query Match          57.0%; Score 11.4; DB 4; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.9e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      4 TCTTGCAGGAAGC 16
      ||| |||||
DB      5 TCTGGCAGGAAGC 17

RESULT 24
US-09-866-108A-117
; Sequence 117, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
```


; Remaining Prior Application data removed - See File Wrapper or PALM.

; SOFTWARE: Aemica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 117
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-117

Query Match 57.0%; Score 11.4; DB 4; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.9e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 4 TCTTGCAGGAAGC 16
||| |||||
Db 3 TCTGCGAGGAAGC 15

RESULT 25

US-09-866-108A-118
; Sequence 118, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEMICA-7
; CURRENT APPLICATION NUMBER: US 09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; Remaining Prior Application data removed - See File Wrapper or PALM.

; SOFTWARE: Aemica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 118
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-118

Query Match 57.0%; Score 11.4; DB 4; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.9e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 4 TCTTGCAGGAAGC 16
||| |||||
Db 2 TCTGCGAGGAAGC 14

RESULT 26
US-09-866-108A-119
; Sequence 119, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEMICA-7
; CURRENT APPLICATION NUMBER: US 09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; Remaining Prior Application data removed - See File Wrapper or PALM.

; SOFTWARE: Aemica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 119
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-119

Query Match 57.0%; Score 11.4; DB 4; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.9e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 4 TCTTGCAGGAAGC 16
||| |||||
Db 1 TCTGCGAGGAAGC 13

RESULT 27

US-09-866-108A-6215/c
; Sequence 6215, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEMICA-7
; CURRENT APPLICATION NUMBER: US 09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456

; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aecomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 6215
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-6215

Query Match 57.0%; Score 11.4; DB 4; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.9e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GACTCTTGCAGGA 13
||| |||||
Db 17 GACTCTTGCAGGA 5

RESULT 28
US-09-866-108A-6216/c
; Sequence 6216, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aecomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 6217
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-6217

Query Match 57.0%; Score 11.4; DB 4; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.9e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GACTCTTGCAGGA 13
||| |||||
Db 15 GACTCTTGCAGGA 3

; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aecomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 6216
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-6216

Query Match 57.0%; Score 11.4; DB 4; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.9e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GACTCTTGCAGGA 13
||| |||||
Db 16 GACTCTTGCAGGA 4

RESULT 29
US-09-866-108A-6217/c
; Sequence 6217, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aecomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 6217
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-6217

Query Match 57.0%; Score 11.4; DB 4; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.9e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GACTCTTGCAGGA 13
||| |||||
Db 15 GACTCTTGCAGGA 3

```

; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Acomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 6219
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-6219

Query Match      57.0%; Score 11.4; DB 4; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.9e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GACTCTTCGAGG 13
DB 13 GACTGTTGCAGG 1

RESULT 32
US-09-256-496-10
; Sequence 10, Application US/09256496
; Patent No. 5998206
; GENERAL INFORMATION:
; APPLICANT: Lex M. Cowser
; TITLE OF INVENTION: ANTISENSE MODULATION OF G-APLHA-12 EXPRESSION
; FILE REFERENCE: RTS-0056
; CURRENT APPLICATION NUMBER: US/09/256,496
; CURRENT FILING DATE: 1999-02-23
; NUMBER OF SEQ ID NOS: 86
; SEQ ID NO 10
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-09-256-496-10

Query Match      57.0%; Score 11.4; DB 2; Length 18;
Best Local Similarity 92.3%; Pred. No. 1.9e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 8 GCAGGAAGCGGCT 20
DB 2 GCAGGAGCGGCT 14

RESULT 33
US-09-517-584A-11/c
; Sequence 11, Application US/09517584A
; Patent No. 6187587
; GENERAL INFORMATION:
; APPLICANT: Ian Popoff

; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Acomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 6218
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-6218

Query Match      57.0%; Score 11.4; DB 4; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.9e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GACTCTTCGAGG 13
DB 14 GACTGTTGCAGG 2

RESULT 31
US-09-866-108A-6219/c
; Sequence 6219, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
```

```
; APPLICANT: Vickie L. Brown-Driver
; APPLICANT: Lex M. Cowert
; TITLE OF INVENTION: ANTISENSE MODULATION OF E2F TRANSCRIPTION FACTOR 1 EXPRESSION
; FILE REFERENCE: RTS-0121
; CURRENT APPLICATION NUMBER: US/09/517,584A
; CURRENT FILING DATE: 2000-03-22
; NUMBER OF SEQ ID NOS: 89
; SEQ ID NO 11
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-09-517-584A-11

Query Match 57.0%; Score 11.4; DB 3; Length 20;
Best Local Similarity 92.3%; Pred. No. 1.9e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 6 TTGCAGGAGCGG 18
Db 13 TTGCAGGAGCGG 1

RESULT 34
US-09-467-082-27
; Sequence 27, Application US/09467082
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; APPLICANT: Lex M. Cowert
; TITLE OF INVENTION: ANTISENSE MODULATION OF PKA CATALYTIC SUBUNIT C-ALPHA EXPRESSION
; FILE REFERENCE: RTS-0088
; CURRENT APPLICATION NUMBER: US/09/467,082
; CURRENT FILING DATE: 1999-12-17
; NUMBER OF SEQ ID NOS: 49
; SEQ ID NO 27
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-09-467-082-27

Query Match 57.0%; Score 11.4; DB 3; Length 20;
Best Local Similarity 92.3%; Pred. No. 1.9e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 5 CTTCGAGGAGCG 17
Db 2 CTTCGAGGATGCG 14

RESULT 35
US-09-658-687A-51
; Sequence 51, Application US/09658687A
; Patent No. 6387699
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Jacqueline Wyatt
; TITLE OF INVENTION: ANTISENSE MODULATION OF A20 EXPRESSION
; FILE REFERENCE: RTS-0141
; CURRENT APPLICATION NUMBER: US/09/658,687A
; CURRENT FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 88
; SEQ ID NO 51
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-09-658-687A-51

Query Match 57.0%; Score 11.4; DB 3; Length 20;
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```
Best Local Similarity 92.3%; Pred. No. 1.9e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 4 TCTTGCAGGAGC 16
Db 2 TCTTGCAGGAGC 14

RESULT 36
US-09-198-452A-6247
; Sequence 6247, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
; APPLICANT: Griffois, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prevention
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/09/198,452A
; CURRENT FILING DATE: 1998-11-24
; NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 6247
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Chlamydia pneumoniae
US-09-198-452A-6247

Query Match 57.0%; Score 11.4; DB 4; Length 20;
Best Local Similarity 92.3%; Pred. No. 1.9e+04;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3 CTCTTGCAGGAAG 15
Db 5 CTATTGCAGGAAG 17

RESULT 37
US-09-856-662-20/C
; Sequence 20, Application US/09856662
; Patent No. 6790616
; GENERAL INFORMATION:
; APPLICANT: MORIBE, Toyoki et al.
; TITLE OF INVENTION: Method for typing HLA class 1 genes
; FILE REFERENCE: 0032-0261P
; CURRENT APPLICATION NUMBER: US/09/856,662
; CURRENT FILING DATE: 2001-05-24
; PRIOR APPLICATION NUMBER: JP P1998-335151
; PRIOR FILING DATE: 1998-11-26
; NUMBER OF SEQ ID NOS: 130
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 20
; LENGTH: 16
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:DNA probe A402G
US-09-856-662-20

Query Match 56.0%; Score 11.2; DB 4; Length 16;
Best Local Similarity 81.2%; Pred. No. 2.4e+04;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 2 ACTCTTGCAGGAGCG 17
Db 16 ACCCGCGCAGGAAGCG 1

RESULT 38
US-09-474-432B-429
; Sequence 429, Application US/09474432B
; Patent No. 6528640
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
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Page 13

Qy 1 GACTCTTGCAGGAAGC 16
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Db 2 GACTGCTGACAGGAAC 17

;
 ; PRIORITY FILING DATE: 2000-09-27
 ; PRIORITY APPLICATION NUMBER: PCT/US01/006566
 ;
 ; PRIORITY FILING DATE: 2001-01-30
 ;

; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/006664
 ; PRIOR FILING DATE: 2001-01-30

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, , PRIOR APPLICATION NUMBER: PCT/US01/00665
, , PRIOR FILING DATE: 2001-01-30
, , PRIOR APPLICATION NUMBER: PCT/US01/00668
, , PRIOR FILING DATE: 2001-01-30
, , PRIOR APPLICATION NUMBER: PCT/US01/00663
, , PRIOR FILING DATE: 2001-01-30
, , Remaining Prior Application data removed
, , NUMBER OF SEQ ID NOS: 15755
, , SOFTWARE: Aecmica Sequence Listing Engine
, , Patent No. 6686188
, , SEQ ID NO 7632
, , LENGTH: 17
, , TYPE: DNA
, , ORGANISM: Homo sapiens
US-09-866-108A-7632

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length 17;
Indels 0; Gaps 0;
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Search completed: August 6, 2005, 16:30:01
Job time : 92 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: August 6, 2005, 09:48:11 ; Search time 231 Seconds
(without alignments)

512.532 Million cell updates/sec

Title: US-10-773-678-342

Perfect score: 20

Sequence: 1 gactcttcaggaagcggt 20

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 4390206 seqs, 2959870667 residues

Total number of hits satisfying chosen parameters: 2207178

Minimum DB seq length: 0
Maximum DB seq length: 20

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 100 summaries

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- 2: _geneseqn1990s:*
- 3: _geneseqn2000s:*
- 4: _geneseqn2001as:*
- 5: _geneseqn2001bs:*
- 6: _geneseqn2002as:*
- 7: _geneseqn2002bs:*
- 8: _geneseqn2003as:*
- 9: _geneseqn2003bs:*
- 10: _geneseqn2003cs:*
- 11: _geneseqn2003ds:*
- 12: _geneseqn2004as:*
- 13: _geneseqn2004bs:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	14	70.0	20	3	AAC93168 Human STA
2	14	70.0	20	6	AAS96785 Human STA
3	13.6	68.0	20	12	ADM14825 Human mPG
4	13	65.0	15	4	AAR46591 IGFBP3 ol
5	13	65.0	15	4	AAR46590 IGFBP3 ol
6	13	65.0	15	4	AAR46589 IGFBP3 ol
7	12.6	63.0	20	12	ADM92376 Pancreat
8	12.6	63.0	20	12	ADM14384 Human mPG
9	12.6	63.0	20	12	ADM14826 Human mPG
10	12.4	62.0	17	10	ADB45311 Tumour su
11	12.4	62.0	17	10	ACC52408 Human tum
12	12.4	62.0	18	12	AAR39770 SNP speci
13	12.4	62.0	18	12	ADB34379 Reverse p
14	12.4	62.0	20	2	AAQ71136 Merlin ex
15	12.4	62.0	20	2	AAT90721 Human KVL
16	12.4	62.0	20	2	AAT91069 Human KVL
17	12.4	62.0	20	3	AAR90745 Human KVL
18	12.4	62.0	20	3	AAR98975 Mutant hu
19	12.4	62.0	20	13	ADR72365 Antisense
20	12.4	62.0	20	13	ADR72397 Antisense

21	12.2	61.0	17	6	ABN08122	Abn08122 Human GDM
22	12.2	61.0	17	13	ACN71212	Acn71212 Human GDM
23	12.2	61.0	18	3	AAC67455	Aac67455 Alzheimer
24	12.2	61.0	19	3	AAA83794	Aaa83794 cdk-we-hu
25	12.2	61.0	19	5	AAH58956	Aah58956 Cdk-we-hu
26	12.2	61.0	19	13	ADT01798	Adt01798 Novel mut
27	12.2	61.0	20	2	AAT89003	Aat89003 Human mas
28	12.2	61.0	20	2	AAZ02042	Aaz02042 PCR prime
29	12.2	61.0	20	2	AAZ02042	Aaz02042 PCR prime
30	12.2	61.0	20	2	AAZ02042	Aaz02042 PCR prime
31	12.2	61.0	20	2	AAZ02042	Aaz02042 PCR prime
32	12.2	61.0	20	2	AAZ02042	Aaz02042 PCR prime
33	12.2	61.0	20	2	AAZ02042	Aaz02042 PCR prime
34	12.2	61.0	20	2	AAZ02042	Aaz02042 PCR prime
35	12.2	61.0	20	2	AAZ02042	Aaz02042 PCR prime
36	12.2	61.0	20	2	AAZ02042	Aaz02042 PCR prime
37	12.2	61.0	20	2	AAZ02042	Aaz02042 PCR prime
38	12.2	61.0	20	2	AAZ02042	Aaz02042 PCR prime
39	11.8	59.0	20	3	AAZ74144	Aaz74144 Human bia
40	11.8	59.0	20	3	AAZ74144	Aaz74144 Human bia
41	11.8	59.0	20	3	AAZ74144	Aaz74144 Human bia
42	11.8	59.0	20	3	AAZ74144	Aaz74144 Human bia
43	11.8	59.0	20	3	AAZ74144	Aaz74144 Human bia
44	11.8	59.0	20	3	AAZ74144	Aaz74144 Human bia
45	11.8	59.0	20	3	AAZ74144	Aaz74144 Human bia
46	11.8	59.0	20	3	AAZ74144	Aaz74144 Human bia
47	11.8	59.0	20	3	AAZ74144	Aaz74144 Human bia
48	11.8	59.0	20	3	AAZ74144	Aaz74144 Human bia
49	11.8	59.0	20	3	AAZ74144	Aaz74144 Human bia
50	11.8	59.0	20	3	AAZ74144	Aaz74144 Human bia
51	11.8	59.0	20	3	AAZ74144	Aaz74144 Human bia
52	11.8	59.0	20	3	AAZ74144	Aaz74144 Human bia
53	11.8	59.0	20	3	AAZ74144	Aaz74144 Human bia
54	11.8	59.0	20	3	AAZ74144	Aaz74144 Human bia
55	11.8	59.0	20	3	AAZ74144	Aaz74144 Human bia
56	11.8	59.0	20	3	AAZ74144	Aaz74144 Human bia
57	11.6	58.0	20	3	AAZ74144	Aaz74144 Human bia
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59	11.6	58.0	20	3	AAZ74144	Aaz74144 Human bia
60	11.6	58.0	20	3	AAZ74144	Aaz74144 Human bia
61	11.6	58.0	20	3	AAZ74144	Aaz74144 Human bia
62	11.6	58.0	20	3	AAZ74144	Aaz74144 Human bia
63	11.6	58.0	20	3	AAZ74144	Aaz74144 Human bia
64	11.6	58.0	20	3	AAZ74144	Aaz74144 Human bia
65	11.6	58.0	20	3	AAZ74144	Aaz74144 Human bia
66	11.6	58.0	20	3	AAZ74144	Aaz74144 Human bia
67	11.6	58.0	20	3	AAZ74144	Aaz74144 Human bia
68	11.6	58.0	20	3	AAZ74144	Aaz74144 Human bia
69	11.6	58.0	20	3	AAZ74144	Aaz74144 Human bia
70	11.6	58.0	20	3	AAZ74144	Aaz74144 Human bia
71	11.6	58.0	20	3	AAZ74144	Aaz74144 Human bia
72	11.6	58.0	20	3	AAZ74144	Aaz74144 Human bia
73	11.6	58.0	20	3	AAZ74144	Aaz74144 Human bia
74	11.6	58.0	20	3	AAZ74144	Aaz74144 Human bia
75	11.4	57.0	17	6	ABN08122	Abn08122 Human GDM
76	11.4	57.0	17	6	ABN08122	Abn08122 Human GDM
77	11.4	57.0	17	6	ABN08122	Abn08122 Human GDM
78	11.4	57.0	17	6	ABN08122	Abn08122 Human GDM
79	11.4	57.0	17	6	ABN08122	Abn08122 Human GDM
80	11.4	57.0	17	6	ABN08122	Abn08122 Human GDM
81	11.4	57.0	17	6	ABN08122	Abn08122 Human GDM
82	11.4	57.0	17	6	ABN08122	Abn08122 Human GDM
83	11.4	57.0	17	6	ABN08122	Abn08122 Human GDM
84	11.4	57.0	17	6	ABN08122	Abn08122 Human GDM
85	11.4	57.0	17	6	ABN08122	Abn08122 Human GDM
86	11.4	57.0	17	6	ABN08122	Abn08122 Human GDM
87	11.4	57.0	17	6	ABN08122	Abn08122 Human GDM
88	11.4	57.0	17	6	ABN08122	Abn08122 Human GDM
89	11.4	57.0	17	6	ABN08122	Abn08122 Human GDM
90	11.4	57.0	17	6	ABN08122	Abn08122 Human GDM
91	11.4	57.0	17	6	ABN08122	Abn08122 Human GDM
92	11.4	57.0	17	6	ABN08122	Abn08122 Human GDM
93	11.4	57.0	17	6	ABN08122	Abn08122 Human GDM

c 94 11.4 57.0 17 13 ACN69314 Acn69314 Human GDM
95 11.4 57.0 17 13 ACN63214 Acn63214 Human GDM
96 11.4 57.0 18 3 AAX57670 Aax57670 Human G-a
97 11.4 57.0 20 2 AAX96921 Aax96921 PCR prime
c 98 11.4 57.0 20 3 AAC72420 Aac72420 Single nu
99 11.4 57.0 20 4 AAS4448 Aas4448 Primer fo
c 100 11.4 57.0 20 4 AAF91296 Aaf91296 Human E2F

ALIGNMENTS

RESULT 1
AAC93168
ID AAC93168 standard; DNA; 20 BP.
XX
AC AAC93168;
XX
DT 15-FEB-2001 (first entry)
XX
DE Human STAT3 phosphorothioate antisense oligonucleotide SEQ ID NO:19.
XX
KW Human; mouse; STAT3; phosphorothioate; antisense oligonucleotide;
KW modulation; signal transducer and activator of transcription;
KW DNA-binding protein; signal transduction; inhibition; apoptosis;
KW inflammatory disease; cancer; antinflammatory; antirheumatic;
KW cytosolic; immunostimulatory; rheumatoid arthritis; leukaemia; myeloma;
KW melanoma; lymphoma; diagnosis; ss.
XX
OS Homo sapiens.
XX
FN WO200061602-A1.
XX
PD 19-OCT-2000.
XX
PF 06-APR-2000; 2000WO-US009054.
XX
PR 08-APR-1999; 99US-00288461.
XX
PA (ISIS-) ISIS PHARM INC.
XX
PI Karras JG;
XX
DR WPI; 2000-619223/59.
XX
PS New antisense compound for inhibiting the expression of signal transducer
and activator of transcription 3 (STAT3) in cells or tissues and treating
PT diseases or condition associated with STAT3, such as rheumatoid arthritis
PT and cancer.
XX
PS Example 2; Page 46; 104pp; English.

XX The present invention describes an antisense compound (I), 8 to 30
CC nucleobases in length, that is targeted to a nucleic acid molecule
CC encoding STAT3 (Signal Transducer and Activator of Transcription) and
CC which inhibits the expression of it. (I) has antinflammatory,
CC antirheumatic, cytosolic and immunostimulatory activities. (I) is used
CC for inhibiting the expression of STAT3 in cells or tissues, treating an
CC animal having a disease or condition associated with STAT3 or a human
CC having a disease or condition characterised by a reduction in apoptosis,
CC and inducing apoptosis in a cell. Diseases or conditions that are treated
CC are rheumatoid arthritis, cancer of the breast, prostate, brain, head
CC and/or neck, leukaemia, myeloma, melanoma or lymphoma. (I) can also be
CC used for diagnostic methods in detecting and determining the role of
CC STAT3 in various cell functions, physiological processes and conditions.
CC (I) can be used alone or with other drugs as an immunostimulator. (I) is
CC used in sandwich and colourimetric assays, involving enzyme conjugation
CC and radiolabeling and is used in diagnostic kits. AAC93150 encodes human
CC STAT3 and AAC93231 encodes mouse STAT3 as given in the exemplification of
CC the present invention. AAC93151 to AAC93230 and AAC93232 to AAC93299
CC represent STAT3 phosphorothioate antisense oligonucleotides, and AAC93300
CC represents a mismatch control oligonucleotide which are used in example

CC from the present invention
XX
SQ Sequence 20 BP; 6 A; 5 C; 4 G; 5 T; 0 U; 0 Other;
Query Match 70.0%; Score 14; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.5e+03;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 GACTCTTGCAGGAA 14
| | | | | | | | | | | | | | | |
Db 7 GACTCTTGCAGGAA 20
RESULT 2
AAS96785
ID AAS96785 standard; DNA; 20 BP.
XX
AC AAS96785;
XX
DT 26-FEB-2002 (first entry)
XX
DE Human STAT3 antisense phosphorothioate oligodeoxynucleotide #18.
XX
KW STAT3; human; signal transducer and activator of transcription; ss; STAT;
KW antisense gene therapy; Fas-mediated apoptosis; inflammatory disease;
KW autoimmune disease; rheumatoid arthritis; cancer; breast; prostate; head;
KW neck; brain; leukaemia; myeloma; melanoma; lymphoma; apoptosis;
KW antinflammatory; immunosuppressive; antirheumatic; antiarthritic;
KW cytosolic.
XX
OS Homo sapiens.
OS Synthetic.
XX
FN US2001029250-A1.
XX
PD 11-OCT-2001.
XX
PF 11-JAN-2001; 2001US-00758881.
XX
PR 08-APR-1999; 99US-00288461.
PR 06-APR-2000; 2000WO-US009054.
XX
PA (KARR/) KARRAS J G.
XX
PI Karras JG;
XX
DR WPI; 2002-009991/01.
XX
PT Novel antisense compound useful for treating and diagnosing inflammatory
PT diseases and cancers, is targeted to a nucleic acid molecule encoding
PT signal transducer and activator of transcription proteins.
XX
PS Example 2; Page 13; 21pp; English.
XX
CC The invention relates to antisense compounds targeted to a nucleic acid
CC molecule encoding a signal transducer and activator of transcription
CC (STAT) protein, specifically STAT3, where the antisense compounds inhibit
CC the expression of STAT3. The antisense sequences are useful for
CC inhibiting the expression of STAT3 in cells or tissues, inducing Fas-
CC mediated apoptosis in cells, and sensitising cells to apoptosis. They are
CC also useful for treating an animal having a disease or condition
CC associated with STAT3. These disorders include inflammatory or autoimmune
CC disease, particularly rheumatoid arthritis, cancers, such as those of the
CC breast, prostate, brain and head and neck and leukaemias, myelomas,
CC melanomas and lymphomas. Also treatable are human diseases or conditions
CC characterised by a reduction in apoptosis or an insensitivity to
CC apoptotic signals. The sequences of the invention can be used in clinical
CC research, for detecting and determining the role of STAT3 in various cell
CC functions and physiological processes and for diagnosing conditions
CC associated with the expression of STAT3. The sequences represent cDNA
CC encoding human STAT3 and human STAT3 oligonucleotides
XX
SQ Sequence 20 BP; 6 A; 5 C; 4 G; 5 T; 0 U; 0 Other;

Query Match	70.0%;	Score 14;	DB 6;	Length 20;
Best Local Similarity	100.0%;	Pred. No. 5.5e+03;		
Matches 14;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

QY	1	GACTCTTGCAGGAA	14
DB	7	GACTCTTGCAGGAA	20

RESULT 3	
ADM14825/c	
ID	ADM14825 standard; DNA; 20 BP.
XX	ADM14825;
XX	
DT	01-JUL-2004 (first entry)
XX	
DE	Human mPGES-1 chimeric antisense oligonucleotide SEQ ID NO:1012.
XX	
KW	chimeric; antisense oligonucleotide; phosphorothioate; human;
KW	microsomal prostaglandin E2 synthase; mPGES-1; mPGES-1 inhibitor;
KW	microsomal prostaglandin E2 synthase inhibitor; cytosolic; anti-diabetic;
KW	immunomodulator; cardiant; neuroprotective; anti-inflammatory;
KW	neuroprotective; nootropic; anti-arthritis; vasotropic; ophthalmological;
KW	immunomodulatory; cardiovascular; gene therapy; inflammation;
KW	Alzheimer's disease; arthritis; diabetes; cancer; ischaemia;
KW	reperfusion injury; ophthalmic disorder; immunological disorder;
KW	cardiovascular disorder; neurological disorder; ss.
XX	
OS	Homo sapiens.
OS	Synthetic.
XX	
FH	Key Location/Qualifiers
FT	modified_base 1..20
FT	/*tag= b
FT	/mod_base= OTHER
FT	/note= "phosphorothioate linkages and all cytidine
FT	residues are 5-methylcytidines"
FT	modified_base 1..5
FT	/*tag= a
FT	/mod_base= OTHER
FT	/note= "2'-O-methoxyethyls"
FT	modified_base 15..20
FT	/*tag= c
FT	/mod_base= OTHER
FT	/note= "2'-O-methoxyethyls"
XX	WO2004028458-A2.
XX	
PD	08-APR-2004.
XX	
XX	25-SEP-2003; 2003WO-US030374.
XX	
PR	25-SEP-2002; 2002US-0413549P.
XX	
PA	(PHAA) PHARMACIA CORP.
XX	
PI	Gierse JK;
XX	
DR	WPI; 2004-305094/28.
XX	
PT	New antisense compound, having a sequence targeted to a nucleic acid
PT	encoding mPGES-1, useful for preparing a composition for treating e.g.,
PT	inflammation, Alzheimer's disease, arthritis, diabetes, cancer or
PT	ischemia
XX	
PS	Claim 4; SEQ ID NO 1012; 132pp; English.
XX	
CC	The present sequence represents a chimeric antisense oligonucleotide
CC	targeted to human microsomal prostaglandin E2 synthase (mPGES-1). The
CC	human mPGES-1 gene is located on chromosome 9, more specifically to
CC	9q34.3. The present invention also describes: (1) antisense compounds,

CC inflammation and/or other disorders. The present sequence is an
 CC oligonucleotide which can be used to design the antisense
 CC oligonucleotides of the present invention (see AAF45151 and AAF45153-
 CC F45161). The method is useful for ameliorating the effects of psoriasis,
 CC ichthyosis, pityriasis, ruba, pilaris, serborrhoes, keloids, keratosis,
 CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
 CC hyperneovascular condition such as a neovascular condition of the retina,
 CC brain or skin, growth factor-mediated malignancies, other sclerotic
 CC disease, kidney disease, hyperproliferation of the inside of blood
 CC vessels or any other hyperplasia
 XX
 SQ Sequence 15 BP; 1 A; 7 C; 3 G; 4 T; 0 U; 0 Other;

Query Match 65.0%; Score 13; DB 4; Length 15;
 Best Local Similarity 100.0%; Pred. No. 1.7e+04;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 8 GCAGGAGCGGCT 20
 |||||
 Db 13 GCAGGAGCGGCT 1

RESULT 5
 AAF46590/c
 ID AAF46590 standard; DNA; 15 BP.

XX AC AAF46590;

DT 30-MAR-2001 (first entry)

DE IGFBP3 oligonucleotide #10.

XX Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
 KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
 KW skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
 KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
 KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
 KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
 KW hyperneovascular condition; hyperplasia; kidney disease;
 KW neovascular condition of the retina; ss.

XX Homo sapiens.

XX WO200078341-A1.

XX 28-DEC-2000.

XX 21-JUN-2000; 2000WO-AU000693.

XX 21-JUN-1999; 99US-0140345P.

XX (MURD-) MURDOCH CHILDRENS RES INST.

XX Wright CJ, Werther GA, Edmondson SR;

XX WPI; 2001-041421/05.

XX Ameliorating the effects of a disorder, e.g. psoriasis, by administering
 PT UV (ultra-violet) treatment (optional) and an antisense nucleic acid that
 PT inhibits or reduces growth factor mediated cell proliferation and/or
 PT inflammation.

XX Example 7; Page 44; 201pp; English.

XX The present invention relates to a method for ameliorating the effects of
 CC skin disorders. The method comprises contacting the skin with an
 CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
 CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
 CC inhibiting or reducing growth factor mediated cell proliferation,
 CC inflammation and/or other disorders. The present sequence is an
 CC oligonucleotide which can be used to design the antisense
 CC oligonucleotides of the present invention (see AAF45151 and AAF45153-
 CC F45161). The method is useful for ameliorating the effects of psoriasis,

CC ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids, keratosis,
 CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
 CC hyperneovascular condition such as a neovascular condition of the retina,
 CC brain or skin, growth factor-mediated malignancies, other sclerotic
 CC disease, kidney disease, hyperproliferation of the inside of blood
 CC vessels or any other hyperplasia
 XX

SQ Sequence 15 BP; 1 A; 8 C; 3 G; 3 T; 0 U; 0 Other;

Query Match 65.0%; Score 13; DB 4; Length 15;
 Best Local Similarity 100.0%; Pred. No. 1.7e+04;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 8 GCAGGAGCGGCT 20
 |||||
 Db 14 GCAGGAGCGGCT 2

RESULT 6

AAF46589/c

ID AAF46589 standard; DNA; 15 BP.

XX AC AAF46589;

DT 30-MAR-2001 (first entry)

DE IGFBP3 oligonucleotide #9.

XX Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
 KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
 KW skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
 KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
 KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
 KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
 KW hyperneovascular condition; hyperplasia; kidney disease;
 KW neovascular condition of the retina; ss.

XX Homo sapiens.

XX WO200078341-A1.

XX 28-DEC-2000.

XX 21-JUN-2000; 2000WO-AU000693.

XX 21-JUN-1999; 99US-0140345P.

XX (MURD-) MURDOCH CHILDRENS RES INST.

XX Wright CJ, Werther GA, Edmondson SR;

XX WPI; 2001-041421/05.

XX Ameliorating the effects of a disorder, e.g. psoriasis, by administering
 PT UV (ultra-violet) treatment (optional) and an antisense nucleic acid that
 PT inhibits or reduces growth factor mediated cell proliferation and/or
 PT inflammation.

XX Example 7; Page 44; 201pp; English.

XX The present invention relates to a method for ameliorating the effects of
 CC skin disorders. The method comprises contacting the skin with an
 CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
 CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
 CC inhibiting or reducing growth factor mediated cell proliferation,
 CC inflammation and/or other disorders. The present sequence is an
 CC oligonucleotide which can be used to design the antisense
 CC oligonucleotides of the present invention (see AAF45151 and AAF45153-
 CC F45161). The method is useful for ameliorating the effects of psoriasis,
 CC ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids, keratosis,
 CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
 CC hyperneovascular condition such as a neovascular condition of the retina,
 CC brain or skin, growth factor-mediated malignancies, other sclerotic

The present invention describes a method for diagnosing pancreatic cancer (PNC) or a predisposition to developing PNC in a subject. The method comprises determining a level of expression of a PNC-associated gene in a patient derived biological sample, where an increase or decrease of the level compared to a normal control level of the gene indicates that the subject suffers from or is at risk of developing PNC. Also described: (1) a PNC reference expression profile, comprising a pattern of gene expression of two or more genes, i.e. PNC 1-605 or PNC 850-866 and PNC 894-906; (2) a method of screening for a compound for treating or preventing PNC or malignant PNC; (3) a kit comprising a detection reagent which binds to two or more nucleic acid sequences, i.e. PNC 1-605 or PNC 850-866 and PNC 894-906 or the encoded polypeptides; (4) an array comprising two or more nucleic acids which bind to one or more nucleic acid sequences, i.e. PNC 1-605 or PNC 850-866 and PNC 894-906; (5) a method of treating or preventing PNC in a subject; (6) a composition, for treating or preventing PNC, comprising a pharmaceutical amount of: (a) an antisense polynucleotide or small interfering RNA against a polynucleotide, i.e. PNC 1-259, PNC 606-640 and PNC 682-741 or PNC 850-933; (b) an antibody or antibody fragment that binds to a protein encoded by any one gene, i.e. PNC 1-259, PNC 606-640 and PNC 682-741 or PNC 850-

XX New antisense compound, having a sequence targeted to a nucleic acid
PT encoding mPGES-1, useful for preparing a composition for treating e.g.,
PT inflammation, Alzheimer's disease, arthritis, diabetes, cancer or
PT ischemia.
XX
XX
PS Claim 4; SEQ ID NO 571; 132pp; English.
XX
XX The present sequence represents a chimeric antisense oligonucleotide
CC targeted to human microsomal prostaglandin E2 synthase (mPGES-1). The
CC human mPGES-1 gene is located on chromosome 9, more specifically to
CC 9q34.3. The present invention also describes: (1) antisense compounds,
CC having a sequence comprising 8-30 bp targeted to a nucleic acid encoding
CC mPGES-1, which specifically hybridise with the nucleic acid mPGES-1 and
CC inhibits its expression; (2) a method of inhibiting the expression of
CC mPGES-1 in cells or tissues; and (3) a method of treating an animal
CC having a disease or condition associated with mPGES-1. mPGES-1 chimeric
CC antisense oligonucleotides and antisense compounds have cytostatic,
CC antidiabetic, immunomodulator, cardiant, neuroprotective,
CC antiinflammatory, neuroprotective, nootropic, antiarthritic, vasotropic,
CC ophthalmological, immunomodulatory and cardiovascular activities, and can
CC be used as mPGES-1 inhibitors and in gene therapy. The antisense compound
CC can be used for preparing a composition for treating a disease or
CC condition associated with mPGES-1 e.g., inflammation, Alzheimer's
CC disease, arthritis, diabetes, cancer, ischaemia or reperfusion injury, or
CC ophthalmic, immunological, cardiovascular or neurological disorder.
XX
SQ Sequence 20 BP; 4 A; 7 C; 5 G; 4 T; 0 U; 0 Other;

Query Match 63.0%; Score 12.6; DB 12; Length 20;
Best Local Similarity 78.9%; Pred. No. 2.6e+04;
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GACTCTTCGACGAGCGGC 19
DB 19 GATTCTGCACGAGTGGC 1

RESULT 9
ADM14826/c
ID ADM14826 standard; DNA; 20 BP.
XX
AC ADM14826;
XX
DT 01-JUL-2004 (first entry)
XX
DE Human mPGES-1 chimeric antisense oligonucleotide SEQ ID NO:1013.
XX
KW chimeric; antisense oligonucleotide; phosphorothioate; human;
KW microsomal prostaglandin E2 synthase; mPGES-1; mPGES-1 inhibitor;
KW microsomal prostaglandin E2 synthase inhibitor; cytostatic; antidiabetic;
KW immunomodulator; cardiant; neuroprotective; antiinflammatory;
KW neuroprotective; nootropic; antiarthritic; vasotropic; ophthalmological;
KW immunomodulatory; cardiovascular; gene therapy; inflammation;
KW Alzheimer's disease; arthritis; diabetes; cancer; ischaemia;
KW reperfusion injury; ophthalmic disorder; immunological disorder;
KW cardiovascular disorder; neurological disorder; ss.
XX
OS Homo sapiens.
OS Synthetic.
XX
FH Key Location/Qualifiers
FT modified_base 1..20
FT /*tag= b
FT /mod_base= OTHER
FT /note= "phosphorothioate linkages and all cytidine
FT residues are 5-methylcytidines"
FT modified_base 1..5
FT /*tag= a
FT /mod_base= OTHER
FT /note= "2'-O-methoxycethyls"
FT modified_base 16..20
FT /*tag= c

FT
XX /mod_base= OTHER
XX /note= "2'-O-methoxycethyls"
FN W02004028458-A2.
XX
XX 08-APR-2004.
XX
XX 25-SEP-2003; 2003WO-US030374.
XX
XX 25-SEP-2002; 2002US-0413549P.
XX (PHAA) PHARMACIA CORP.
XX
XX Gierse JK;
XX
XX WPI; 2004-305094/28.
XX
XX New antisense compound, having a sequence targeted to a nucleic acid
PT encoding mPGES-1, useful for preparing a composition for treating e.g.,
PT inflammation, Alzheimer's disease, arthritis, diabetes, cancer or
PT ischemia.
XX
XX Claim 4; SEQ ID NO 1013; 132pp; English.
XX
XX The present sequence represents a chimeric antisense oligonucleotide
CC targeted to human microsomal prostaglandin E2 synthase (mPGES-1). The
CC human mPGES-1 gene is located on chromosome 9, more specifically to
CC 9q34.3. The present invention also describes: (1) antisense compounds,
CC having a sequence comprising 8-30 bp targeted to a nucleic acid encoding
CC mPGES-1, which specifically hybridise with the nucleic acid mPGES-1 and
CC inhibits its expression; (2) a method of inhibiting the expression of
CC mPGES-1 in cells or tissues; and (3) a method of treating an animal
CC having a disease or condition associated with mPGES-1. mPGES-1 chimeric
CC antisense oligonucleotides and antisense compounds have cytostatic,
CC antidiabetic, immunomodulator, cardiant, neuroprotective,
CC antiinflammatory, neuroprotective, nootropic, antiarthritic, vasotropic,
CC ophthalmological, immunomodulatory and cardiovascular activities, and can
CC be used as mPGES-1 inhibitors and in gene therapy. The antisense compound
CC can be used for preparing a composition for treating a disease or
CC condition associated with mPGES-1 e.g., inflammation, Alzheimer's
CC disease, arthritis, diabetes, cancer, ischaemia or reperfusion injury, or
CC ophthalmic, immunological, cardiovascular or neurological disorder.
XX
XX Sequence 20 BP; 5 A; 6 C; 5 G; 4 T; 0 U; 0 Other;

Query Match 63.0%; Score 12.6; DB 12; Length 20;
Best Local Similarity 78.9%; Pred. No. 2.6e+04;
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2 ACTCTTCGACGAGCGGCT 20
DB 20 ATTCTGCGACGAGTGGCT 2

RESULT 10
ADB45311
ID ADB45311 standard; DNA; 17 BP.
XX
XX ADB45311;
XX
XX 18-DEC-2003 (first entry)
XX
XX Tumour suppression/reversion associated nucleotide #5634.
DE
XX
XX cytostatic; antiviral; neuroprotective; nootropic; neuroleptic; ss;
KW primer; probe; tumour suppression; tumour reversion; apoptosis;
KW virus resistance; transgenic animals; Alzheimer's disease; schizophrenia;
KW diagnosis.
XX
XX Homo sapiens.
XX
XX W02003040369-A2.
XX

```
PD 15-MAY-2003.
XX
XX
PF 17-SEP-2002; 2002WO-IB004219.
XX
XX
PR 17-SEP-2001; 2001FR-00011981.
XX
XX
PA (MOLE-) MOLECULAR ENGINES LAB.
XX
XX
PI Telerman A, Amson R, Tuijnder M;
XX
XX
WPI; 2003-441574/41.
XX
XX
New nucleic acid encoding human prostate membrane-specific antigen,
PT useful e.g. for treatment of tumors and viral infection, also related
PT polypeptide and antibodies.
XX
XX
PS Disclosure; Page 690; 771pp; French.
XX
XX
The invention relates to the isolation of 6327 nucleotide sequences,
CC fragments of at least 15 consecutive nucleotides of these nucleotides, a
CC sequence having at least 80% identity, after optimal alignment, with the
CC nucleotides, a sequence that hybridizes under stringent conditions with
CC the nucleotides, or the complement, or corresponding RNA, of the
CC nucleotides. The nucleotides are used as probes or primers for detecting,
CC identifying, quantifying and/or amplifying nucleic acids, as in vitro
CC sense and antisense sequences, of nucleotides involved in tumour
CC suppression or reversion, apoptosis and or viral resistance, to produce
CC recombinant polypeptides, and to prepare transgenic animals, as
CC experimental models. The nucleotides (also vectors containing them and
CC cells containing the vectors), the encoded polypeptides and antibodies
CC (Ab) against the polypeptide are useful for prevention and/or treatment
CC of viral infections or diseases characterized by development of tumours
CC or cell degeneration (e.g. Alzheimer's disease or schizophrenia).
CC Analysis of the expression of the nucleotides can be used for diagnosis
CC and/or prognosis of these diseases. The nucleotides and polypeptides can
CC also be used to screen for their specific interactive molecules,
CC potentially useful for treating diseases associated with abnormal
CC expression of the nucleotides.
XX
XX
SQ Sequence 17 BP; 6 A; 2 C; 6 G; 3 T; 0 U; 0 Other;

Query Match 62.0%; Score 12.4; DB 10; Length 17;
Best Local Similarity 92.9%; Pred. No. 3.3e+04;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 TCTTCAGGAGCG 17
| | | | | | | | |
Db 3 TCTTCAGGAGAG 16

RESULT 11
ACCS2408
ID ACCS2408 standard; DNA; 17 BP.
XX
XX
AC CCS2408;
XX
XX
DT 27-JUN-2003 (first entry)
XX
XX
DE Human tumour suppressor sequence #1175.
XX
XX
ss; tumour suppressor; antitumour; cytostatic; tumour suppression;
KW tumour regression; apoptosis; virus resistance; diagnosis;
KW cellular degeneration.
XX
XX
OS Homo sapiens.
XX
XX
PN FR2826373-A1.
XX
XX
PD 27-DEC-2002.
XX
XX
PF 20-JUN-2001; 2001FR-00008139.
XX
XX
PR 20-JUN-2001; 2001FR-00008139.

XX (MOLE-) MOLECULAR ENGINES LAB SA.
XX
XX
PI Tuijnder M, Telerman A, Amson R;
XX
XX
WPI; 2003-250498/25.
XX
XX
New nucleic acid sequences associated with tumor suppression, regression,
PT apoptosis or virus resistance are useful to diagnose and treat viral
PT disease, development of tumor cells and cell degeneration.
XX
XX
PS Claim 1; Page 311; 798pp; French.
XX
XX
This sequence represents an isolated nucleic acid sequence associated
CC with tumour suppression or regression, apoptosis or virus resistance. The
CC invention relates to these sequences or sequences having at least 80%
CC identity to them, and polypeptides encoded by the sequences or
CC polypeptides having 80% identity to the polypeptide sequences. The
CC invention is used to diagnose or treat viral disease or disease
CC characterized by development of tumour cells or cellular degeneration
XX
XX
SQ Sequence 17 BP; 4 A; 4 C; 7 G; 2 T; 0 U; 0 Other;

Query Match 62.0%; Score 12.4; DB 10; Length 17;
Best Local Similarity 92.9%; Pred. No. 3.3e+04;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 TCCAGGAAGCGGCT 20
| | | | | | | | |
Db 3 TCCAGGAAGCGGCT 16

RESULT 12
AAH39770
ID AAH39770 standard; DNA; 18 BP.
XX
XX
AC AAH39770;
XX
XX
DT 14-AUG-2001 (first entry)
XX
XX
DE SNP specific lower PCR primer SEQ ID 2566.
XX
XX
Single nucleotide polymorphism; SNP; single nucleotide primer extension;
KW SNP; genotyping; agammaglobulinaemia; diabetes insipidus; cancer;
KW Lesch-Nyhan syndrome; muscular dystrophy; familial hypercholesterolaemia;
KW polycystic kidney disease; osteogenesis imperfecta; autoimmune disease;
KW acute intermittent porphyria; rheumatoid arthritis; multiple sclerosis;
KW inflammation; forensic investigation; paternity analysis; PCR primer; ss.
XX
XX
OS Homo sapiens.
XX
XX
PN WO200129262-A2.
XX
XX
PD 26-APR-2001.
XX
XX
PF 13-OCT-2000; 2000WO-US028436.
XX
XX
PR 15-OCT-1999; 99US-0160096P.
XX
XX
PA (ORCH-) ORCHID BIOSCIENCES INC.
XX
XX
PI Picoult-Newburg L, Pohl M;
XX
XX
WPI; 2001-290930/30.
XX
XX
New genotyping oligonucleotide, useful for detecting the presence,
PT absence or identity of single polynucleotide polymorphism in a nucleic
PT acid sample.
XX
XX
PS Claim 1; Page 63; 83pp; English.
XX
XX
Sequences AAH37205 - AAH40944 represent PCR primers, single nucleotide
CC primer extension (SNPE) primers, and the sequences of regions flanking
```

CC sites of single nucleotide polymorphisms SNPs. The present invention
 CC includes kits for determining the presence or absence of a SNP, using the
 CC oligonucleotides of the invention. The PCR primers are used to amplify a
 CC SNP flanking sequence, the SNPE primer is used as a genotyping primer.
 CC The oligonucleotides are useful for genotyping a nucleic acid sample by
 CC performing a single-nucleotide primer extension reaction. The
 CC oligonucleotides are useful for determining the presence, absence or
 CC identity of a SNP and for genotyping nucleic acid samples, for e.g. to
 CC assess by association analysis the genotype of an individual or group of
 CC individuals, having a pathological phenotypic trait suspected of being
 CC caused by one or more SNPs. Phenotypic traits include diseases e.g.
 CC agammaglobulinaemia, diabetes insipidus, Lesch-Nyhan syndrome, muscular
 CC dystrophy, familial hypercholesterolaemia, polycystic kidney disease,
 CC osteogenesis imperfecta and acute intermittent porphyria. Phenotypic
 CC traits also include symptoms of or susceptibility to multifactorial
 CC disease of which a component is or may be genetic such as autoimmune
 CC diseases, including, rheumatoid arthritis, multiple sclerosis,
 CC inflammation, cancer, nervous system diseases and infection by pathogenic
 CC microorganism. The method is also useful in forensic investigations and
 CC paternity analysis. The present sequence represents a PCR primer specific
 CC for a human SNP containing DNA sequence

XX Sequence 18 BP; 4 A; 4 C; 9 G; 1 T; 0 U; 0 Other;
 Query Match 62.0%; Score 12.4; DB 4; Length 18;
 Best Local Similarity 92.9%; Pred. NO. 3.3e+04;
 Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 5 CTTCGAGGAGCGG 18
 Db 3 CTTCGAGGAGCGG 16

RESULT 13
 ADE34379
 ID ADE34379 standard; DNA; 18 BP.

XX AC ADE34379;

XX 29-JAN-2004 (first entry)

XX Reverse primer P4.

XX Helicobacter pylori; gastric carcinoma; Lewis antigen; polymorphism; PCR;
 KW primer; ss.

XX Unidentified.

XX WO2003080840-A1.

XX 02-OCT-2003.

XX 26-MAR-2002; 2002WO-CN000199.

XX 26-MAR-2002; 2002WO-CN000199.

XX (UYBE-) UNIV PEKING SCHOOL ONCOLOGY.

XX Ke Y, Jiang J, Ning T, Lu G, You W, Pan K;

XX WPI; 2004-011526/01.

XX Inspecting genetic susceptibility of Helicobacter pylori- related gastric
 PT carcinoma by checking Lewis blood-type antigen-associated gene
 PT polymorphism, applicable in screening individuals with high risk.

XX Example 2; Page 14; 37pp; Chinese.

XX The invention relates to a method for inspecting the genetic
 CC susceptibility of Helicobacter pylori related gastric carcinoma. The
 CC method of the invention comprises checking the polymorphism of the Lewis
 CC blood-type antigen-associated gene, with susceptibility particularly
 CC based on the recessive se allele and/or dominant homozygous Se/Se

CC genotype. The method is applicable in screening individuals with high
 CC risk and in a follow-up survey for intervention, prevention and early
 CC diagnosis. In an experiment from the invention the Lewis gene fragments
 CC with T59G, G508A and T1067A polymorphism sites for PCR amplification were
 CC obtained for use after extracting samples of peripheral lymphocyte DNA
 CC from subjects. The mutation was then identified for assessing disease
 CC risk and diagnosis. The current sequence represents a PCR primer for
 CC amplification of a region of the Lewis gene.

XX Sequence 18 BP; 4 A; 6 C; 6 G; 2 T; 0 U; 0 Other;

Query Match 62.0%; Score 12.4; DB 12; Length 18;

Best Local Similarity 92.9%; Pred. NO. 3.3e+04;

Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 ACTCTTCGAGGAG 15

Db 3 ACTCTTCGAGGAG 16

RESULT 14

AAQ711136/c

ID AAQ711136 standard; CDNA; 20 BP.

XX AC AAQ711136;

XX 25-MAR-2003 (revised)

DT 20-APR-1995 (first entry)

XX Merlin exon 10 primer #1, amplifies 260 bp product.

XX Polymerase chain reaction; PCR; amplify; primer; bi-lateral schwannoma;
 KW sequence-tagged site assay; chromosome 22; NF2; deletion; hearing loss;
 KW neurofibromatosis; merlin; moesin-erzin-radixin-like protein; D22S28;
 KW tumour suppressor; activity; meningioma; cytoskeleton; gene therapy;
 KW merlin-associated tumour; D22S1; posterior capsular lens opacity;
 KW deafness; balance disorder; paralysis; ss.

XX Synthetic.

OS EP613945-A2.

XX 07-SEP-1994.

XX 25-FEB-1994; 94EP-00301367.

XX 25-FEB-1993; 93US-00022034.

PR 04-MAR-1993; 93US-00026063.

PR 19-AUG-1993; 93US-00108808.

PR 22-DEC-1993; 93US-00171718.

XX (GEHO) GEN HOSPITAL CORP.

XX Trofatter JA, Maccollin NM, Gusella JF;

XX WPI; 1994-272992/34.

XX The tumour suppressor gene merlin - for treatment and diagnosis of
 PT tumours and neurofibromatosis (NF2).

XX Example 6; Page 27; 86pp; English.

XX The sequences given in AAQ71110-55 are primers which were used to amplify
 CC the 17 exons of the NF2 gene. NF2 is a neurofibromatosis which is
 CC characterised by bi-lateral schwannomas. The NF2 "gene" has been shown by
 CC linkage studies to be assigned to chromosome 22. The missing or mutated
 CC gene in NF2 patients has been shown to be the merlin gene. The gene
 CC encodes a protein, merlin (moesin-erzin-radixin-like protein), which
 CC possesses tumour suppressor activity, and whose tumour suppressor
 CC activity is mediated by interactions with the cytoskeleton. The merlin
 CC gene is found on chromosome 22 between the known markers D22S1 and
 CC D22S28. In patients suffering from NF2, the merlin gene is either lost or
 CC mutated. A mutant merlin protein may be encoded by a gene in which a

CC mutation of A to T at the first position of the codon encoding amino acid
CC 220 causes the substitution of Tyr for Asn. The merlin gene may be used
CC in gene therapy for the treatment of a merlin-associated tumour or NF2,
CC or for prevention of schwannoma, meningioma, posterior capsular lens
CC opacities, deafness or hearing loss, balance disorders or paralysis.
CC (Updated on 25-MAR-2003 to correct PN field.)
XX
SQ

Sequence 20 BP; 6 A; 6 C; 4 G; 4 T; 0 U; 0 Other;

Query Match 62.0%; Score 12.4; DB 2; Length 20;
Best Local Similarity 92.9%; Pred. No. 3.3e+04;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3 CTCTTCGAGGAGC 16
Db 15 CTCTTCGAGGTAGC 2

RESULT 15

AAT90721/c
ID AAT90721 standard; cDNA; 20 BP.

XX AAT90721;

XX 12-FEB-1998 (first entry)

XX Human KVLQT1 S4 region PCR primer 5.

XX KVLQT1; long QT syndrome; arrhythmia; minK; potassium channel; diagnosis;
KW therapy; human; single strand conformation polymorphism; primer; ss.

OS Synthetic.
OS Homo sapiens.

PN WO9723598-A2.

XX 03-JUL-1997.

XX 20-DEC-1996; 96WO-US019756.

XX 22-DEC-1995; 95US-0019014P.

XX 29-OCT-1996; 96US-00739383.

XX (UTAH) UNIV UTAH RES FOUND.

XX Keating MT, Sanguinetti MC, Curran ME;

PI WPI; 1997-402190/37.

XX Human minK and Xenopus KVLQT1 coding sequences - used for assays for
XX identifying drugs which can be used for preventing or treating long QT
XX syndrome.

XX Example 12; Page 44; 105pp; English.

XX PCR primer 5 (AAT90721) and primer 6 (AAT90722) were designed to amplify
XX DNA encoding the S4 region of human KVLQT1 (see AAW30038). PCR primers
XX (AAT90717-28) were used in single-strand conformation analysis (SSCP) to
XX define mutations in the human KVLQT1 gene (see AAT90730) associated with
XX long QT syndrome (LQT). An initial SSCP identified an anomalous conformer
XX in LQT-affected members of 6 large families. Further SSCP analyses
XX identified a KVLQT1 intragenic deletion and 9 missense mutations
XX associated with LQT in small families and sporadic cases

XX Sequence 20 BP; 3 A; 7 C; 6 G; 4 T; 0 U; 0 Other;

Query Match 62.0%; Score 12.4; DB 2; Length 20;
Best Local Similarity 92.9%; Pred. No. 3.3e+04;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 7 TGCAGGAGCGGCT 20
Db 18 TGCAGGAGCGGAT 5

RESULT 16

AAT91069/c

ID AAT91069 standard; DNA; 20 BP.

XX AAT91069;

XX 01-MAR-1998 (first entry)

XX Human KVLQT1 S4 region PCR primer 5.

XX KVLQT1; long QT syndrome; arrhythmia; minK; potassium channel; diagnosis;
KW therapy; human; PCR; primer; ss.

OS Synthetic.

OS Homo sapiens.

XX WO9723632-A1.

XX 03-JUL-1997.

XX 20-DEC-1996; 96WO-US019917.

XX 22-DEC-1995; 95US-0019014P.

XX 29-OCT-1996; 96US-00739383.

XX (UTAH) UNIV UTAH RES FOUND.

XX (GENZ) GENZYME GENETICS.

XX Keating MF, Curran ME, Landes GM, Connors TD;

PI WPI; 1997-402191/37.

XX New isolated human potassium channel gene, KVLQT1, - used to develop

XX products for diagnosis, prevention and therapy of long QT syndrome.

XX Example 12; Page 44; 105pp; English.

XX PCR primer 5 (AAT91069) and primer 6 (AAT91070) were designed to amplify
XX DNA encoding the S4 region of human KVLQT1 (see AAW33355). PCR primers
XX (AAT91065-76) were used in single-strand conformation analysis (SSCP) to
XX define mutations in the human KVLQT1 gene (see AAT94004) associated with
XX long QT syndrome (LQT). An initial SSCP identified an anomalous conformer
XX in LQT-affected members of 6 large families. Further SSCP analyses
XX identified a KVLQT1 intragenic deletion and 9 missense mutations
XX associated with LQT in small families and sporadic cases

XX Sequence 20 BP; 3 A; 7 C; 6 G; 4 T; 0 U; 0 Other;

Query Match 62.0%; Score 12.4; DB 2; Length 20;
Best Local Similarity 92.9%; Pred. No. 3.3e+04;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 7 TGCAGGAGCGGCT 20
Db 18 TGCAGGAGCGGAT 5

RESULT 17

AAT90745/c

ID AAT90745 standard; DNA; 20 BP.

XX AAT90745;

XX 19-JUN-2000 (first entry)

XX Human KVLQT1 mutation defining primer 5.

XX KVLQT1; KCNE1; long QT syndrome; LQT syndrome; minK protein;
KW antiarrhythmic; gene therapy; human; PCR primer; ss.

XX Homo sapiens.

```
XX PN WO200006600-A1.
XX PD 10-FEB-2000.
XX PF 06-OCT-1998; 98WO-US017838.
XX PR 29-JUL-1998; 98US-0094477P.
XX PR 17-AUG-1998; 98US-00135020.
XX PA (UTAH ) UNIV UTAH RES FOUND.
XX PI Keating MT, Sanguinetti MC, Splawski I;
XX WPI; 2000-195262/17.
XX
XX Mutant forms of genes encoding mink protein and KVLQT1 protein involved
XX in cardiac potassium channel formation useful for screening drugs, for
XX preventing and treating cardiac arrhythmia.
XX Example 13; Page 75; 167pp; English.
XX
XX The invention relates to KVLQT1 and KCNE1 genes, associated with long QT
XX (LQT) syndrome. It provides a mink protein comprising a mutation which
XX substitutes the wild type amino acids with Leu, Asp, Leu, His, Trp and
XX Ala or Thr at residues 74, 76, 28, 32, 98 and 127 respectively. Screening
XX KVLQT1 and KCNE1 is useful for identifying mutations for diagnosing and
XX treating LQT. The ability to predict LQT enables physicians to prevent
XX the diseases with medical therapy such as beta blocking agents and opts
XX for better treatments. Sequences AA290741-290752 represent PCR primers
XX for defining human KVLQT1 mutations
XX
XX Sequence 20 BP; 3 A; 7 C; 6 G; 4 T; 0 U; 0 Other;
SQ Query Match 62.0%; Score 12.4; DB 3; Length 20;
Best Local Similarity 92.9%; Pred. No. 3.3e+04;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 7 TGCAGGAAGCGGCT 20
Db 18 TGCAGGAAGCGGAT 5
RESULT 18
AAZ98975/c
ID AA298975 standard; DNA; 20 BP.
XX AAZ98975;
XX
XX 06-JUN-2000 (first entry)
XX
XX Mutant human long QT syndrome-associated KVLQT1 diagnostic primer 5.
XX
XX KVLQT1; mutation; human; cardiac I (ks) potassium channel; KCNE1; ss;
XX cardiac arrhythmia; electrocardiogram; Long QT syndrome; gene therapy;
XX chromosome 1p15.5; PCR primer.
XX
XX Homo sapiens.
XX
XX WO200006199-A1.
XX
XX 10-FEB-2000.
XX
XX 12-MAY-1999; 99WO-US010260.
XX
XX 29-JUL-1998; 98US-0094477P.
XX 17-AUG-1998; 98US-00135010.
XX
XX (UTAH ) UNIV UTAH RES FOUND.
XX PA (GENZ ) GENZYME CORP.
XX PI Keating MT, Sanguinetti MC, Curran ME, Landes GM, Connors TD;
XX Burn TC, Splawski I;
```

```
XX WPI; 2000-195199/17.
XX
XX New isolated mutant KVLQT1 nucleic acids, useful for developing products
XX for the diagnosis, prevention and treatment of long QT syndrome.
XX Example 13; Page 78; 178pp; English.
XX
XX The invention relates to KVLQT1 nucleic acids which have a mutation
XX compared to wild-type KVLQT1 (AA298901) The KVLQT1 gene encodes a protein
XX of 676 amino acids which forms a cardiac I(ks) potassium channel with the
XX KCNE1 protein (AA290563). The KVLQT1 gene contains 15 introns and encodes
XX a protein containing 6 putative transmembrane segments and a pore forming
XX region. The gene has been mapped to the chromosomal location 1p15.5. The
XX sequences AA298971-298982 represent PCR primers used to diagnose
XX mutations in the KVLQT1 gene. Mutations in the KVLQT1 or KCNE1 genes
XX result in cardiac arrhythmias observed as a prolonged QT curve in
XX electrocardiograms (Long QT syndrome). The genes and proteins can be used
XX for the diagnosis of subjects with long QT syndrome. They can also be
XX used to screen for drugs which can be used for treating or preventing
XX long QT syndrome. The KVLQT1 nucleic acids can be used for gene therapy,
XX and KVLQT1 peptides can be used for peptide therapy
XX
XX Sequence 20 BP; 3 A; 7 C; 6 G; 4 T; 0 U; 0 Other;
SQ Query Match 62.0%; Score 12.4; DB 3; Length 20;
Best Local Similarity 92.9%; Pred. No. 3.3e+04;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 7 TGCAGGAAGCGGCT 20
Db 18 TGCAGGAAGCGGAT 5
RESULT 19
ADR72365/c
ID ADR72365 standard; DNA; 20 BP.
XX ADR72365;
XX
XX 02-DEC-2004 (first entry)
XX
XX Antisense oligo targeted to human kinesin-like 1, ISIS 344901.
XX
XX Antisense; kinesin-like 1; N2 kinesin; bimC kinesin;
XX cellular proliferation; cancer; B-cell leukaemia; autoimmune disease;
XX carpal tunnel syndrome; Raynaud's phenomenon; systemic sclerosis;
XX Sjorgren's syndrome; rheumatoid arthritis; polymyositis; polyarteritis;
XX systemic lupus erythematosus; human; ss; ISIS 344901; rat.
XX
XX Homo sapiens.
XX OS Rattus sp.
XX OS Synthetic.
XX
XX Key Location/Qualifiers
XX modified_base 1..20
XX /*tag= a
XX /mod_base= OTHER
XX /note= "OTHER= phosphorothioate nucleotide. All cytosines
XX are 5-methylcytidines. Residues 1 to 5 and 15 to 20 are
XX 2'-methoxyethyl nucleotides."
XX
XX US2004180847-A1.
XX
XX 16-SEP-2004.
XX
XX 17-NOV-2003; 2003US-00714796.
XX
XX 23-MAY-2002; 2002US-00156603.
XX (DOI/) DOBIE K W.
XX (KOLL/) KOLLER E.
XX
```


PI Dobie KW, Koller E;
XX WPI; 2004-652550/63.
XX
XX New antisense compound 8 to 80 nucleobases in length targeted to a
PT nucleic acid molecule encoding kinesin-like 1, useful for treating an
PT animal having a disease or condition such as cancer, tumor, autoimmune
PT disease.
XX
XX Example 30; SEQ ID NO 129; 110pp; English.
PS
XX The present invention relates to antisense compounds, compositions and
CC methods for modulating the expression of kinesin-like 1. The superfamily
CC of kinesins function as molecular engines to bind and transport vesicles
CC and organelles along microtubules using energy supplied by ATP. Kinesin-
CC like 1, a member of the N2 (also called bimC) family of kinesins, is
CC involved in separating the chromosomes by directing their movement along
CC microtubules in the bipolar spindle. Kinesin-like 1 is also known as
CC KNSL1, Eg5, HsEg5, HKSP, KIF11, thyroid interacting protein 5 and TRIP5.
CC Inhibition of kinesin-like 1 may be a target for arresting cellular
CC proliferation in cancer, due to its central role in mitosis. Expression
CC of kinesin-like 1 expression may contribute to other disease states such
CC as B-cell leukaemia, autoimmune diseases such as carpal tunnel syndrome,
CC Raynaud's phenomenon, systemic sclerosis, Sjogren's syndrome, rheumatoid
CC arthritis, polymyositis and polyarteritis. Kinesin-like 1 is an
CC autoantigen identified in systemic lupus erythematosus. The invention
CC relates to antisense nucleic acid oligomers, targeted to the gene
CC encoding kinesin-like 1. Also provided are methods of screening for
CC modulators of kinesin-like 1 and to methods of modulating the expression
CC of kinesin-like 1. At least a portion of the compound hybridises with RNA
CC to form an oligonucleotide-RNA duplex. It has at least one modified
CC internucleoside linkage, sugar moiety, or nucleobase. It has at least one
CC 2'-O-methoxyethyl sugar moiety, phosphorothioate internucleoside linkage,
CC or one cytosine which is a 5-methylcytosine. The antisense compound may
CC comprise an antisense nucleic acid molecule that is specifically
CC hybridisable with a 5'-untranslated region (UTR), with a start region,
CC with a coding region, with a 3'-UTR, with an intron, or with an intron-
CC exon junction of a nucleic acid molecule encoding kinesin-like 1.
CC Oligonucleotides were synthesised via solid phase P(III) phosphoramidite
CC chemistry. The present sequence is an antisense oligo targeted to human
CC kinesin-like 1, ISIS #344902.
XX
XX Sequence 20 BP; 4 A; 5 C; 3 G; 8 T; 0 U; 0 Other;
SQ
Query Match 62.0%; Score 12.4; DB 13; Length 20;
Best Local Similarity 92.9%; Pred. No. 3.3e+04; Mismatches 0; Gaps 0;
Matches 13; Conservative 0; Indels 1; Indels 0; Gaps 0;
QY 4 TCTTCGAGGAGCG 17
DB 20 TCTTCGAGGAGTG 7
RESULT 20
AD72397/c
ID AD72397 standard; DNA; 20 BP.
XX
XX AD72397;
XX
XX 02-DEC-2004 (first entry)
XX
XX Antisense oligo targeted to mouse kinesin-like 1, ISIS 285690.
XX
XX Antisense; kinesin-like 1; N2 kinesin; bimC kinesin;
KW cellular proliferation; cancer; B-cell leukaemia; autoimmune disease;
KW carpal tunnel syndrome; Raynaud's phenomenon; systemic sclerosis;
KW Sjogren's syndrome; rheumatoid arthritis; polymyositis; polyarteritis;
KW systemic lupus erythematosus; mouse; ss; human.
XX
XX Mus musculus.
OS Homo sapiens.
OS Synthetic.
XX

FH Key Location/Qualifiers
FT modified_base 1..20
FT /*tag= a
FT /mod_base= OTHER
FT /note= "OTHER= phosphorothioate nucleotide. All cytosines
FT are 5-methylcytidines. Residues 1 to 5 and 15 to 20 are
FT 2'-methoxyethyl nucleotides."
XX
PN US2004180847-A1.
XX
XX 16-SEP-2004.
XX
XX 17-NOV-2003; 2003US-00714796.
XX
XX 23-MAY-2002; 2002US-00156603.
XX
XX (DOI/) DOBIE K W.
XX (KOLL/) KOLLER E.
XX
XX Dobie KW, Koller E;
XX
XX WPI; 2004-652550/63.
XX
XX New antisense compound 8 to 80 nucleobases in length targeted to a
PT nucleic acid molecule encoding kinesin-like 1, useful for treating an
PT animal having a disease or condition such as cancer, tumor, autoimmune
PT disease.
XX
XX Claim 36; SEQ ID NO 161; 110pp; English.
PS
XX The present invention relates to antisense compounds, compositions and
CC methods for modulating the expression of kinesin-like 1. The superfamily
CC of kinesins function as molecular engines to bind and transport vesicles
CC and organelles along microtubules using energy supplied by ATP. Kinesin-
CC like 1, a member of the N2 (also called bimC) family of kinesins, is
CC involved in separating the chromosomes by directing their movement along
CC microtubules in the bipolar spindle. Kinesin-like 1 is also known as
CC KNSL1, Eg5, HsEg5, HKSP, KIF11, thyroid interacting protein 5 and TRIP5.
CC Inhibition of kinesin-like 1 may be a target for arresting cellular
CC proliferation in cancer, due to its central role in mitosis. Expression
CC of kinesin-like 1 expression may contribute to other disease states such
CC as B-cell leukaemia, autoimmune diseases such as carpal tunnel syndrome,
CC Raynaud's phenomenon, systemic sclerosis, Sjogren's syndrome, rheumatoid
CC arthritis, polymyositis and polyarteritis. Kinesin-like 1 is an
CC autoantigen identified in systemic lupus erythematosus. The invention
CC relates to antisense nucleic acid oligomers, targeted to the gene
CC encoding kinesin-like 1. Also provided are methods of screening for
CC modulators of kinesin-like 1 and to methods of modulating the expression
CC of kinesin-like 1. At least a portion of the compound hybridises with RNA
CC to form an oligonucleotide-RNA duplex. It has at least one modified
CC internucleoside linkage, sugar moiety, or nucleobase. It has at least one
CC 2'-O-methoxyethyl sugar moiety, phosphorothioate internucleoside linkage,
CC or one cytosine which is a 5-methylcytosine. The antisense compound may
CC comprise an antisense nucleic acid molecule that is specifically
CC hybridisable with a 5'-untranslated region (UTR), with a start region,
CC with a coding region, with a 3'-UTR, with an intron, or with an intron-
CC exon junction of a nucleic acid molecule encoding kinesin-like 1.
CC Oligonucleotides were synthesised via solid phase P(III) phosphoramidite
CC chemistry. The present sequence is an antisense oligo targeted to mouse
CC kinesin-like 1.
XX
XX Sequence 20 BP; 5 A; 5 C; 2 G; 8 T; 0 U; 0 Other;
SQ
Query Match 62.0%; Score 12.4; DB 13; Length 20;
Best Local Similarity 92.9%; Pred. No. 3.3e+04; Mismatches 0; Gaps 0;
Matches 13; Conservative 0; Indels 1; Indels 0; Gaps 0;
QY 4 TCTTCGAGGAGCG 17
DB 19 TCTTCGAGGAGTG 6
RESULT 21

XX Sagar R, Zhang M;
 XX WPI; 1997-489785/45.
 XX Maspin gene promoter fragment - used to identify compounds for treatment
 PT of prostate or breast cancer.
 XX Disclosure; Page 12; 51pp; English.
 XX Primers AAT89003-T89008 are used in electrophoretic mobility shift assay
 CC experiments to analyse the maspin promoter region. AAT89003 is designed
 CC as a Ets regulatory element wild type (WT) sense oligonucleotide. Maspin
 CC is a serpin which is expressed in mammary epithelial cells. Its
 CC expression in these cells decreases with increasing malignancy and is
 CC lost in during metastasis. Maspin protein is also known to inhibit the
 CC mobility of tumour cells. This gene can be used in method for screening
 CC compounds to identify candidate compounds for the treatment of prostate
 CC cancer, or breast cancer. It can also be used to identify compounds that
 CC increase the expression of maspin, and for detecting the presence of
 CC metastatic prostate epithelial cells
 XX
 XX Sequence 20 BP; 3 A; 11 C; 3 G; 3 T; 0 U; 0 Other;
 SQ
 Query Match 61.0%; Score 12.2; DB 2; Length 20;
 Best Local Similarity 82.4%; Pred. No. 4.1e+04;
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 QY 4 TCTTCAGGAGCGGCT 20
 DB 18 TCGGGCAGGAGGGGCT 2
 RESULT 28
 AAZ02042
 ID AAZ02042 standard; DNA; 20 BP.
 XX
 AC AAZ02042;
 XX
 DT 07-OCT-1999 (first entry)
 DE
 DE PCR primer used to amplify an ORF of Chlamydia trachomatis.
 XX
 XX Vaccine; eye disease; conventional trachoma; nonendemic trachoma;
 KW paratrachoma; inclusion conjunctivitis; genital disease; perihhepatitis;
 KW nongonococcal urethritis; epididymitis; cervicitis; salpingitis; PCR primer;
 KW Bartholinitis; pneumopathy; venereal lymphogranulomatosis; ss.
 XX
 XX Synthetic.
 OS Chlamydia trachomatis.
 OS
 XX WO9928475-A2.
 XX
 XX 10-JUN-1999.
 XX
 XX 27-NOV-1998; 98WO-IB001939.
 XX
 XX 28-NOV-1997; 97FR-00015041.
 PR 17-DEC-1997; 97FR-00016034.
 PR 04-NOV-1998; 98US-0107077P.
 XX
 XX (GEST) GENSET.
 PA
 XX Griffais R;
 PI
 XX WPI; 1999-371125/31.
 DR
 XX Genome sequence of Chlamydia trachomatis.
 PT
 XX Disclosure; Page 1492; 1755pp; English.
 PS
 PS PCR primers AAZ01426-Z06209 were used to amplify open reading frames
 CC (ORFs) of the genome of Chlamydia trachomatis (see AAZ01425). These ORFs
 CC

CC encode polypeptides (see AAY36754-Y37949) which can be used as vaccines
 CC against Chlamydia trachomatis. Antisense and ribozyme sequences can also
 CC be used to control growth of the microorganism. Chlamydia trachomatis is
 CC responsible for a large number of diseases, e.g. eye diseases such as
 CC conventional trachoma, nonendemic trachoma, paratrachoma, and inclusion
 CC conjunctivitis; genital diseases such as nongonococcal urethritis;
 CC epididymitis, cervicitis, salpingitis, perihhepatitis, Bartholinitis;
 CC pneumopathy in breast feeding infants; and venereal lymphogranulomatosis.
 CC The polypeptides of the invention may be of use in treating these
 CC diseases
 XX
 XX Sequence 20 BP; 4 A; 5 C; 6 G; 5 T; 0 U; 0 Other;
 SQ
 Query Match 61.0%; Score 12.2; DB 2; Length 20;
 Best Local Similarity 82.4%; Pred. No. 4.1e+04;
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 QY 1 GACTCTTCAGGAGCGG 17
 DB 4 GACTCTTCAGGAGGACTCG 20
 RESULT 29
 AAX79782/c
 ID AAX79782 standard; DNA; 20 BP.
 XX
 AC AAX79782;
 XX
 DT 17-AUG-1999 (first entry)
 DE
 DE PCR primer H15340 for mitochondrial DNA analysis.
 XX
 KW PCR primer; human; mitochondrial DNA; genetic diagnosis;
 KW adult disease contraction; ss.
 XX
 XX Synthetic.
 OS Homo sapiens.
 OS
 XX JP111133597-A.
 XX
 XX 27-APR-1999.
 XX
 XX 13-OCT-1997; 97JP-00279127.
 PF
 XX 13-OCT-1997; 97JP-00279127.
 PR
 XX (TANA/) TANAKA M.
 PA
 XX WPI; 1999-320841/27.
 DR
 XX Genetic diagnosis using human mitochondrial DNA - comprises detecting
 PT base replacements.
 PT
 XX Example 2; Page 6; 15pp; Japanese.
 PS
 XX This sequence represents a PCR primer that can be used in the method of
 CC the invention. The method is for genetic diagnosis using human
 CC mitochondrial DNA where there is at least one base replacement from among
 CC the following five replacements: the 3010th base is changed from guanine
 CC to adenine; the 4883rd base from cytosine to thymine; the 5178th base
 CC from cytosine to adenine; the 8414th base from cytosine to thymine; and
 CC the 14668th base from cytosine to thymine. The method can be used for
 CC diagnosing the probability of contracting adult diseases. A confirmation
 CC of base replacement can give a diagnosis of the level of probability of
 CC contraction of adult diseases
 XX
 XX Sequence 20 BP; 5 A; 5 C; 4 G; 6 T; 0 U; 0 Other;
 SQ
 Query Match 61.0%; Score 12.2; DB 2; Length 20;
 Best Local Similarity 82.4%; Pred. No. 4.1e+04;
 Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 QY 2 ACTCTTCAGGAGGAGCGG 18

```
Db      | ||||| ||||| |||||
20 ATTCTTGCACGAACGG 4

RESULT 30
ACC70917/c
ID ACC70917 standard; DNA; 20 BP.
XX
XX ACC70917;
XX
XX 20-NOV-2003 (first entry)
XX
XX Human cytochrome b PCR primer #10.
XX
XX Human; mitochondrial; Parkinson's disease; cytochrome b; PCR; primer; ss.
XX
XX Homo sapiens.
XX
XX WO2003033737-A1.
XX
XX 24-APR-2003.
XX
XX 15-OCT-2002; 2002WO-JP010640.
XX
XX 17-OCT-2001; 2001JP-00318805.
XX
XX (GIFU-) GIFU INT INST BIOTECHNOLOGY.
XX
XX Tanaka M;
XX
XX WPI; 2003-393541/37.
XX
XX Gene detection method using human mitochondrial DNA to reveal and confirm
XX amino acid substitution advantageous or disadvantageous in prolonged
XX survival of human, useful for diagnosis of Parkinson's disease.
XX
XX Disclosure; Page 7; 35pp; Japanese.
XX
XX The present invention relates to a detection method using human
XX mitochondrial (mt) DNA. The method comprises detecting the replacement of
XX a base accompanying an amino acid substitution in a protein encoded by
XX its base sequence in a human mitochondrial DNA base sequence. The method
XX is useful for diagnosis of Parkinson's disease, and in health checks and
XX assessing risks for other adult diseases. The present sequence is a PCR
XX primer, which was used to illustrate the invention
XX
XX Sequence 20 BP; 5 A; 5 C; 4 G; 6 T; 0 U; 0 Other;

Query Match 61.0%; Score 12.2; DB 8; Length 20;
Best Local Similarity 82.4%; Pred. NO. 4.1e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 ACTCTTGACGAAGCGG 18
| ||||| |||||
20 ATTCTTGCACGAACGG 4

Db

RESULT 31
ADM14320/c
ID ADM14320 standard; DNA; 20 BP.
XX
XX ADM14320;
XX
XX 01-JUL-2004 (first entry)
XX
XX Human mPGES-1 chimeric antisense oligonucleotide SEQ ID NO:507.
XX
XX chimeric; antisense oligonucleotide; phosphorothioate; human;
XX microsomal prostaglandin E2 synthase; mPGES-1; mPGES-1 inhibitor;
XX microsomal prostaglandin E2 synthase inhibitor; cytosstatic; antidiabetic;
XX immunomodulator; cardiant; neuroprotective; antiinflammatory;
XX neuroprotective; nootropic; antiarthritic; vasotropic; ophthalmological;
XX immunomodulatory; cardiovascular; gene therapy; inflammation;
```

```
KW Alzheimer's disease; arthritis; diabetes; cancer; ischaemia;
KW reperfusion injury; ophthalmic disorder; immunological disorder;
KW cardiovascular disorder; neurological disorder; ss.
XX
XX Homo sapiens.
XX Synthetic.
XX
XX Key Location/Qualifiers
XX modified_base 1..20
XX /*tag= b
XX /mod_base= OTHER
XX /note= "phosphorothioate linkages and all cytidine
XX residues are 5-methylcytidines"
XX
XX modified_base 1..5
XX /*tag= a
XX /mod_base= OTHER
XX /note= "2'-O-methoxyethyls"
XX
XX modified_base 16..20
XX /*tag= c
XX /mod_base= OTHER
XX /note= "2'-O-methoxyethyls"
XX
XX WO2004028458-A2.
XX
XX 08-APR-2004.
XX
XX 25-SEP-2003; 2003WO-US030374.
XX
XX 25-SEP-2002; 2002US-0413549P.
XX (PHAA ) PHARMACIA CORP.
XX
XX Gierse JK;
XX
XX WPI; 2004-305094/28.
XX
XX New antisense compound, having a sequence targeted to a nucleic acid
XX encoding mPGES-1, useful for preparing a composition for treating e.g.,
XX inflammation, Alzheimer's disease, arthritis, diabetes, cancer or
XX ischemia.
XX
XX Claim 4; SEQ ID NO 507; 132pp; English.
XX
XX The present sequence represents a chimeric antisense oligonucleotide
XX targeted to human microsomal prostaglandin E2 synthase (mPGES-1). The
XX human mPGES-1 gene is located on chromosome 9, more specifically to
XX 9q34.3. The present invention also describes: (1) antisense compounds,
XX having a sequence comprising 8-30 bp targeted to a nucleic acid encoding
XX mPGES-1, which specifically hybridise with the nucleic acid mPGES-1 and
XX inhibits its expression; (2) a method of inhibiting the expression of
XX mPGES-1 in cells or tissues; and (3) a method of treating an animal
XX having a disease or condition associated with mPGES-1. mPGES-1 chimeric
XX antisense oligonucleotides and antisense compounds have cytostatic,
XX antidiabetic, immunomodulator, cardiant, neuroprotective,
XX antiinflammatory, neuroprotective, nootropic, antiarthritic, vasotropic,
XX ophthalmological, immunomodulatory and cardiovascular activities, and can
XX be used as mPGES-1 inhibitors and in gene therapy. The antisense compound
XX can be used for preparing a composition for treating a disease or
XX condition associated with mPGES-1 e.g., inflammation, Alzheimer's
XX disease, arthritis, diabetes, cancer, ischaemia or reperfusion injury, or
XX ophthalmic, immunological, cardiovascular or neurological disorder.
XX
XX Sequence 20 BP; 5 A; 6 C; 5 G; 4 T; 0 U; 0 Other;

Query Match 61.0%; Score 12.2; DB 12; Length 20;
Best Local Similarity 82.4%; Pred. NO. 4.1e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 4 TCTTGCAGGACCGGCT 20
| ||||| |||||
20 TCTTGCAGGACCGGCT 4

Db
```

```
RESULT 32
ADMI14505/c
ID ADMI14505 standard; DNA; 20 BP.
XX
XX
AC ADMI14505;
XX
XX
DT 01-JUL-2004 (first entry)
XX
XX
DE Human mPGES-1 chimeric antisense oligonucleotide SEQ ID NO:692.
XX
XX
KW chimeric; antisense oligonucleotide; phosphorothioate; human;
KW microsomal prostaglandin E2 synthase, mPGES-1; mPGES-1 inhibitor;
KW microsomal prostaglandin E2 synthase inhibitor; cytosolic; antidiabetic;
KW immunomodulator; cardiant; neuroprotective; antiinflammatory;
KW neuroprotective; nootropic; antiarthritic; vasotropic; ophthalmological;
KW immunomodulatory; cardiovascular; gene therapy; inflammation;
KW Alzheimer's disease; arthritis; diabetes; cancer; ischaemia;
KW reperfusion injury; ophthalmic disorder; immunological disorder;
KW cardiovascular disorder; neurological disorder; ss.
XX
XX
OS Homo sapiens.
OS Synthetic.
XX
XX
FH Key Location/Qualifiers
FT modified_base 1..20
FT /*tag= b
FT /*mod_base= OTHER
FT /*note= "phosphorothioate linkages and all cytidine
FT residues are 5-methylcytidines"
FT modified_base 1..5
FT /*tag= a
FT /*mod_base= OTHER
FT /*note= "2'-O-methoxyethyls"
FT modified_base 16..20
FT /*tag= c
FT /*mod_base= OTHER
FT /*note= "2'-O-methoxyethyls"
XX
XX
WO2004028458-A2.
XX
XX
PD 08-APR-2004.
XX
XX
PF 25-SEP-2003; 2003WO-US030374.
XX
XX
PR 25-SEP-2002; 2002US-0413549P.
XX
XX
PA (PHAA ) PHARMACIA CORP.
XX
XX
PI Gierse JK;
XX
XX
DR WPI; 2004-305094/28.
XX
XX
PT New antisense compound, having a sequence targeted to a nucleic acid
PT encoding mPGES-1, useful for preparing a composition for treating e.g.,
PT inflammation, Alzheimer's disease, arthritis, diabetes, cancer or
PT ischemia.
XX
XX
PS Claim 4; SEQ ID NO 692; 132pp; English.
XX
XX
CC The present sequence represents a chimeric antisense oligonucleotide
CC targeted to human microsomal prostaglandin E2 synthase (mPGES-1). The
CC human mPGES-1 gene is located on chromosome 9, more specifically to
CC 9q34.3. The present invention also describes: (1) antisense compounds,
CC having a sequence comprising 8-30 bp targeted to a nucleic acid encoding
CC mPGES-1, which specifically hybridise with the nucleic acid mPGES-1 and
CC inhibits its expression; (2) a method of inhibiting the expression of
CC mPGES-1 in cells or tissues; and (3) a method of treating an animal
CC having a disease or condition associated with mPGES-1. mPGES-1 chimeric
CC antisense oligonucleotides and antisense compounds have cytostatic,
CC antidiabetic, immunomodulatory, cardiant, neuroprotective,
CC antiinflammatory, neuroprotective, nootropic, antiarthritic, vasotropic,
CC ophthalmological, immunomodulatory and cardiovascular activities, and can
CC be used as mPGES-1 inhibitors and in gene therapy. The antisense compound
```

```
CC can be used for preparing a composition for treating a disease or
CC condition associated with mPGES-1 e.g.; inflammation, Alzheimer's
CC disease, arthritis, diabetes, cancer, ischaemia or reperfusion injury, or
CC ophthalmic, immunological, cardiovascular or neurological disorder.
XX
XX
SQ Sequence 20 BP; 5 A; 6 C; 5 G; 4 T; 0 U; 0 Other;
XX
XX
Query Match 61.0%; Score 12.2; DB 12; Length 20;
Best Local Similarity 82.4%; Pred. No. 4.1e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX
QY 4 TCTTGCAGGAGCGGCT 20
||| ||| ||| ||| |||
Db 19 TCTTGCAGGAGGCGCT 3
XX
RESULT 33
AAF4592/c
ID AAF46592 standard; DNA; 15 BP.
XX
XX
AC AAF46592;
XX
XX
DT 30-MAR-2001 (first entry)
XX
XX
DE IGFBP3 oligonucleotide #12.
XX
XX
KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
KW skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; ptyriasis;
KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
KW hyperneovascular condition; hyperplasia; kidney disease;
KW neovascular condition of the retina; ss.
XX
XX
OS Homo sapiens.
XX
XX
PN WO200078341-A1.
XX
XX
PD 28-DEC-2000.
XX
XX
PF 21-JUN-2000; 2000WO-AU000693.
XX
XX
PR 21-JUN-1999; 99US-0140345P.
XX
XX
PA (MURD-) MURDOCH CHILDRENS RES INST.
XX
XX
PI Wraight CJ, Werther GA, Edmondson SR;
XX
XX
DR WPI; 2001-041421/05.
XX
XX
PT Ameliorating the effects of a disorder, e.g. psoriasis, by administering
PT UV (ultra-violet) treatment (optional), and an antisense nucleic acid that
PT inhibits or reduces growth factor mediated cell proliferation and/or
PT inflammation.
XX
XX
PS Example 7; Page 44; 201pp; English.
XX
XX
CC The present invention relates to a method for ameliorating the effects of
CC skin disorders. The method comprises contacting the skin with an
CC antisense oligonucleotide, (for Insulin-like Growth factor [IGF]-1
CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
CC inhibiting or reducing growth factor mediated cell proliferation,
CC inflammation and/or other disorders. The present sequence is an
CC oligonucleotide which can be used to design the antisense
CC oligonucleotides of the present invention (see AAF45151 and AAF45153-
CC F45161). The method is useful for ameliorating the effects of psoriasis,
CC ichthyosis, ptyriasis, ruba, pilaris, serborrhea, keloids, keratosis,
CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
CC hyperneovascular condition such as a neovascular condition of the retina,
CC brain or skin, growth factor-mediated malignancies, other sclerotic
CC disease, kidney disease, hyperproliferation of the inside of blood
CC vessels or any other hyperplasia
```


XX SQ Sequence 15 BP; 0 A; 7 C; 4 G; 4 T; 0 U; 0 Other;
Query Match 60.0%; Score 12; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 5.1e+04;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 8 GCAGGAGCGGC 19
|||||
DB 12 GCAGGAGCGGC 1

RESULT 34
AAF4588/C
ID AAF46588 standard; DNA; 15 BP.
XX AC AAF46588;
XX DT 30-MAR-2001 (first entry)
XX DE IGFBP3 oligonucleotide #8.
XX KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
KW skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; ptyriasis;
KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;
KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
KW hyperneovascular condition; hyperplasia; kidney disease;
KW neovascular condition of the retina; ss.
XX OS Homo sapiens.
XX PN WO200078341-A1.
XX PD 28-DEC-2000.
XX PF 21-JUN-2000; 2000WO-AU000693.
XX PR 21-JUN-1999; 99US-0140345P.
XX PA (MURD-) MURDOCH CHILDRENS RES INST.
XX PI Wraight CJ, Werther GA, Edmondson SR;
XX WPI; 2001-041421/05.
XX DR Ameliorating the effects of a disorder, e.g. psoriasis, by administering
PT UV (ultra-violet) treatment (optional) and an antisense nucleic acid that
PT inhibits or reduces growth factor mediated cell proliferation and/or
PT inflammation.
XX Example 7; Page 44; 201pp; English.
XX PS The present invention relates to a method for ameliorating the effects of
CC skin disorders. The method comprises contacting the skin with an
CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
CC inhibiting or reducing growth factor mediated cell proliferation,
CC inflammation and/or other disorders. The present sequence is an
CC oligonucleotide which can be used to design the antisense
CC oligonucleotides of the present invention (see AAF45151 and AAF45153-
CC F45161). The method is useful for ameliorating the effects of psoriasis,
CC ichthyosis, ptyriasis, ruba, pilaris, serborrhea, keloids, keratosis,
CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
CC hyperneovascular condition such as a neovascular condition of the retina,
CC brain or skin, growth factor-mediated malignancies, other sclerotic
CC disease, kidney disease, hyperproliferation of the inside of blood
CC vessels or any other hyperplasia
XX SQ Sequence 15 BP; 1 A; 8 C; 3 G; 3 T; 0 U; 0 Other;
Query Match 60.0%; Score 12; DB 4; Length 15;

Best Local Similarity 100.0%; Pred. No. 5.1e+04;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 9 CAGGAAGCGGCT 20
|||||
DB 15 CAGGAAGCGGCT 4

RESULT 35
ABT34760/C
ID ABT34760 standard; DNA; 17 BP.
XX AC ABT34760;
XX DT 12-JUN-2003 (first entry)
XX DE Tumour suppression related human fukutin oligo SEQ ID No 397.
XX KW Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; gene chip;
KW antisense; sense; tumour; cell degeneration; cancer; Alzheimer's disease;
KW schizophrenia; protein chip; gene therapy; tumour suppression;
KW human fukutin; ds.
XX OS Homo sapiens.
XX PN WO2003025175-A2.
XX PD 27-MAR-2003.
XX PF 17-SEP-2002; 2002WO-IB004208.
XX PR 17-SEP-2001; 2001FR-00011978.
XX PA (MOLE-) MOLECULAR ENGINES LAB.
XX PI Telerman A, Amson R, Tuijnder M;
XX WPI; 2003-313353/30.
XX DR New isolated nucleic acid, useful for treating viral diseases associated
PT with tumors and cell degeneration, also related polypeptides, antibodies
PT and transfected cells.
XX PS Disclosure; Page 80; 720pp; French.
XX CC The invention relates to a novel isolated 17 mer nucleic acid sequence,
CC given in the specification, a sequence containing at least 15 consecutive
CC nucleotides from the 17 mer sequence, a sequence with, after optimal
CC alignment, at least 80 % identity to the 17 mer sequence, a sequence that
CC hybridizes to them under highly stringent conditions, or the complement
CC of any of them, or the corresponding RNA. The novel isolated nucleic
CC acids of the invention are useful as probes and primers for detecting,
CC identifying, quantifying and/or amplifying a nucleic acid, e.g. as one
CC component of a gene chip, in vitro as (anti)sense reagents, and for
CC production of recombinant polypeptides. Any of the nucleic acids,
CC polypeptides, vectors containing the nucleic acids, cells containing the
CC vector or antibodies directed against the polypeptides are useful for
CC preparation of pharmaceuticals for prevention and/or treatment of viral
CC diseases that are characterised by development of tumours or cell
CC degeneration, specifically cancer but also Alzheimer's disease and
CC schizophrenia. Analysis of the expression of the 17 mer nucleic acids in
CC patient samples is useful for diagnosis and/or prognosis of these
CC diseases. The polypeptides can also be used to generate antibodies, and
CC both the polypeptide and antibodies are useful as components of protein
CC chips. The nucleic acid sequences of the invention can be used in gene
CC therapy. This polynucleotide sequence represents a tumour suppression
CC related human fukutin oligonucleotide of the invention
XX SQ Sequence 17 BP; 6 A; 3 C; 4 G; 4 T; 0 U; 0 Other;
Query Match 60.0%; Score 12; DB 8; Length 17;
Best Local Similarity 100.0%; Pred. No. 5.1e+04;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;


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OY 2 ACTCTTGACGAG 13
Db 14 ACTCTTGACGAG 3

RESULT 36
ACC54373
ID ACC54373 standard; DNA; 17 BP.
XX
AC ACC54373;
XX
DT 27-JUN-2003 (first entry)
XX
DE Human tumour suppressor sequence #3140.
XX
KW ss; tumour suppressor; antitumour; cytostatic; tumour suppression;
KW tumour regression; apoptosis; virus resistance; diagnosis;
KW cellular degeneration.
XX
OS Homo sapiens.
XX
PN FR2826373-Al.
XX
PD 27-DEC-2002.
XX
PF 20-JUN-2001; 2001FR-00008139.
XX
PR 20-JUN-2001; 2001FR-00008139.
XX
PA (MOLE-) MOLECULAR ENGINES LAB SA.
XX
PI Tuijnder M, Telerman A, Amson R;
XX
DR WPI; 2003-250498/25.
XX
PT New nucleic acid sequences associated with tumor suppression, regression,
PT apoptosis or virus resistance are useful to diagnose and treat viral
PT disease, development of tumor cells and cell degeneration.
XX
PS Claim 1; Page 765; 798pp; French.
XX
CC This sequence represents an isolated nucleic acid sequence associated
CC with tumour suppression or regression, apoptosis or virus resistance. The
CC invention relates to these sequences or sequences having at least 80%
CC identity to them, and polypeptides encoded by the sequences or
CC polypeptides having 80% identity to the polypeptide sequences. The
CC invention is used to diagnose or treat viral disease or disease
CC characterized by development of tumour cells or cellular degeneration
XX
SQ Sequence 17 BP; 5 A; 2 C; 5 G; 5 T; 0 U; 0 Other;

Query Match 60.0%; Score 12; DB 10; Length 17;
Best Local Similarity 100.0%; Pred. No. 5.1e+04;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 4 TCTTGACGAG 15
Db 3 TCTTGACGAG 14

RESULT 37
ADF87984/c
ID ADF87984 standard; DNA; 19 BP.
XX
AC ADF87984;
XX
DT 26-FEB-2004 (first entry)
XX
DE Single nucleotide polymorphism detection primer, SEQ ID NO 1567.
XX
KW human; single nucleotide polymorphism; microarray; side effect; ss;
KW primer; PCR.
XX

XX OS Synthetic.
XX OS Homo sapiens.
XX PN JP2003235571-A.
XX XX 26-AUG-2003.
XX PF 12-FEB-2002; 2002JP-00034717.
XX PR 12-FEB-2002; 2002JP-00034717.
XX PA (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN.
XX DR WPI; 2003-820454/77.
XX PT Novel polynucleotide useful for detecting single nucleotide polymorphisms
XX PT in human gene.
XX PS Claim 2; SEQ ID NO 1567; 704pp; Japanese.
XX
CC The invention relates to a novel polynucleotide isolated and purified
CC from a human gene having any one of 935 fully defined sequences as given
CC in specification, or a sequence having a base substitution. The invention
CC further relates to: an oligonucleotide containing single nucleotide
CC polymorphisms; a PCR primer set chosen from the combination of two DNA
CC fragments from any one of 1220 fully defined sequences as given in
CC specification; a labelling probe containing the SNP containing oligo; and
CC a microarray equipped with the SNP containing the SNP containing oligo; and
CC gene of the invention is useful for detecting the single nucleotide
CC polymorphisms in human gene. The isolated human gene is also useful for
CC diagnosis of disease and determination of side effect to a medical agent.
CC The isolated human gene is also effective in detecting single nucleotide
CC polymorphisms in a human gene. This polynucleotide sequence represents
CC one of the PCR primers used in the single nucleotide polymorphism
XX detection method of the invention.
XX
SQ Sequence 19 BP; 1 A; 6 C; 5 G; 7 T; 0 U; 0 Other;

Query Match 60.0%; Score 12; DB 10; Length 19;
Best Local Similarity 100.0%; Pred. No. 5.2e+04;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 9 CAGGAAGCGGCT 20
Db 17 CAGGAAGCGGCT 6

RESULT 38
AAZ74144/c
ID AAZ74144 standard; DNA; 20 BP.
XX
AC AAZ74144;
XX
DT 10-SEP-2001 (first entry)
XX
DE Human biallelic marker downstream amplification primer SEQ ID NO:8500.
XX
KW Human genome; biallelic marker; high density disequilibrium map;
KW genomic map; haplotype; phenotype; polymorphic base; genotyping;
KW haplotyping; hybridisation; identification; characterisation;
KW amplification; single nucleotide polymorphism; SNP; PCR primer;
KW diagnosis; ss.
XX
OS Homo sapiens.
XX
PN WO9954500-A2.
XX
PD 28-OCT-1999.
XX
PF 21-APR-1999; 99WO-IB000822.
XX
PR 21-APR-1998; 98US-0082614P.
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PR 23-NOV-1998; 98US-0109732P.
XX (GBST ) GENSET.
XX Cohen D, Blumenfeld M, Chumakov I;
XX WPI; 2000-013267/01.
XX Novel biallelic markers used to construct a high density disequilibrium
XX map of the human genome.
XX Claim 8; Page 2043; 2745pp; English.
XX AA65654 to AAZ69578 represent human biallelic markers from the present
XX invention, which contain a polymorphic base at position 24 of their
XX nucleotide sequences. AAZ69579 to AAZ77440 represent amplification
XX primers for the biallelic markers. The biallelic markers of the invention
XX have a variety of uses: they can be used for high density mapping of the
XX human genome, and in complex association studies and haplotyping studies
XX which are useful in determining the genetic basis for disease states.
XX Compositions and methods of the invention can also be useful for the
XX identification of the targets for the development of pharmaceutical
XX agents and diagnostic methods, as well as the characterization of the
XX differential efficacious responses to and side effects from
XX pharmaceutical agents acting on a disease as well as other treatment.
XX N.B. The SEQ ID NOS 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297 and
XX 3367, are not actually given a sequence in the Sequence Listing from the
XX present invention
SQ Sequence 20 BP; 6 A; 4 C; 4 G; 6 T; 0 U; 0 Other;

Query Match 60.0%; Score 12; DB 3; Length 20;
Best Local Similarity 75.0%; Pred. No. 5.2e+04;
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GACTCTTGCAGGAGCGGCT 20
||| ||||| ||||| |||
DB 20 GACTTTGCACTAGCAGAT 1

RESULT 39
ABA02533
ID ABA02533 standard; DNA; 16 BP.
XX
AC ABA02533;
XX
DT 18-JUN-2002 (first entry)
XX
DE Lipoprotein lipase precursor SNP-5 reverse PCR primer.
XX
KW Single-nucleotide polymorphism; SNP; diabetes; thalassaemia;
KW sickle-cell anaemia; cystic fibrosis; oncogenic mutation; pathogen;
KW paternity; prenatal testing; forensic investigation; genotyping;
KW 3'-5'-exonuclease; point mutation; lipoprotein lipase precursor; LPL;
KW PCR; primer; ss.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT modified_base 1
FT /tag= a
FT /mod_base= OTHER
FT /note= "6-carboxy-x-rhodamine (ROX)"
XX
PN WO200181631-A1.
XX
PD 01-NOV-2001.
XX
PF 24-APR-2001; 2001WO-US013136.
XX
PR 25-APR-2000; 2000US-00558245.
XX
PA (DNAS-) DNA SCI INC.
```

```
XX Xu H, Mathies RA;
XX WPI; 2002-049286/06.
XX Analyzing variant sites in nucleic acid, useful e.g. for detecting
XX disease-associated polymorphisms, comprises extension of labeled primer
XX in presence of polymerase with 3'-5'-exonuclease activity.
XX Example 2; Fig 7C; 82pp; English.
XX The present sequence is that of a labelled PCR primer used to amplify and
XX genotype the partial nucleotide sequence of lipoprotein lipase precursor
XX (LPL) surrounding the single-nucleotide polymorphism (SNP)-5 site given
XX in ABA02531. The specification describes a novel method for analysing a
XX variant site (VS) in a target nucleic acid (NA). NA is amplified sequence
XX specifically by extending two primers (P1, P2) in the presence of a
XX polymerase having 3'-5'-exonuclease activity. P1 is labelled on at least
XX one nucleotide (nt) other than the 3'-terminal nt and it anneals to a
XX region that spans VS in the first strand of NA. P2 is complementary to a
XX region in the complementary second strand of NA. If P1 is complementary
XX to the base occupying VS it will be extended to form a labelled product.
XX If P1 is not complementary the polymerase will digest P1 from its 3'-end,
XX removing the label, and any extension product will be unlabelled. The
XX extension products are analysed for absence/presence of the label. The
XX method of the invention is particularly used to detect point mutations
XX and SNPs, e.g. for diagnosis and prognosis of diabetes, thalassaemia,
XX sickle-cell anaemia, cystic fibrosis or oncogenic mutations, or for
XX assessing predisposition to these conditions or monitoring the effect of
XX treatments. Other applications are detecting pathogens (including those
XX with altered pathogenicity or drug resistance); resolving paternity
XX disputes, and in prenatal testing or forensic investigations. The method
XX can be used for simultaneous analysis of many different VS, in one or
XX more targets, providing very high throughput and rapid genotyping
XX
SQ Sequence 16 BP; 4 A; 6 C; 4 G; 2 T; 0 U; 0 Other;

Query Match 59.0%; Score 11.8; DB 6; Length 16;
Best Local Similarity 86.7%; Pred. No. 6.4e+04;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 ACTCTTGCAGGAGC 16
||| ||||| ||||| |||
DB 1 ACCCTTGCAGGCAGC 15

RESULT 40
AAF07158
ID AAF07158 standard; DNA; 17 BP.
XX
AC AAF07158;
XX
DT 16-FEB-2001 (first entry)
XX
DE Hammerhead ribozyme substrate #3415.
XX
KW Ribozyme; erythropoietin; granulocyte colony stimulating factor;
KW interferon alpha; ss.
XX
OS Homo sapiens.
XX
PN WO2000061729-A2.
XX
PD 19-OCT-2000.
XX
PF 11-APR-2000; 2000WO-US009721.
XX
PR 12-APR-1999; 99US-0129390P.
XX
PA (RIBO-) RIBOZYME PHARM INC.
XX
PI Blatt L, Zwick M, Pavco P, Mcswiggen J;
XX
```

DR WPI; 2000-647423/62.
XX Enzymatic and antisense nucleic acid inhibition of repressor genes.
PT useful for producing e.g. granulocyte colony stimulating factor protein,
PT interferon alpha and erythropoietin.
XX
XX
PS Claim 54; Page 134; 164pp; English.
XX
XX The present invention relates to enzymatic and antisense nucleic acid
CC molecules that act as inhibitors of the expression of repressor genes
CC encoding the TR2 Orphan receptor, EAR3/COUP-1F-1, the GATA transcription
CC factor gene, IRF-2 and/or the CAAT Displacement Protein (CDP).
CC Inhibition of the repressors removes prevents inhibition (and
CC consequently increases expression of) genes involved in the production of
CC erythropoietin, granulocyte colony stimulating factor protein and
CC interferon alpha
XX
SQ Sequence 17 BP; 6 A; 2 C; 4 G; 5 T; 0 U; 0 Other;
Query Match 59.0%; Score 11.8; DB 3; Length 17;
Best Local Similarity 86.7%; Pred. No. 6.4e+04;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 GACTCTTGCAGGAG 15
||| |||||
DB 1 GACTATTTCAGGAG 15

Search completed: August 6, 2005, 15:37:05
Job time : 236 secs

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OM nucleic - nucleic search, using sw model

Run on: August 6, 2005, 15:33:37 ; Search time 341 Seconds

(without alignments)
380.195 Million cell updates/sec

Title: US-10-773-678-342

Perfect score: 20

Sequence: 1 gactcttcaggagcggt 20

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 7297361 seqs, 3241162794 residues

Total number of hits satisfying chosen parameters: 1713812

Minimum DB seq length: 0

Maximum DB seq length: 20

Post-processing: Minimum Match 0%

Listing first 100 summaries

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- 14: /cgn2_6/ptodata/2/pubpna/US10B_PUBCOMB.seq:*
- 15: /cgn2_6/ptodata/2/pubpna/US10C_PUBCOMB.seq:*
- 16: /cgn2_6/ptodata/2/pubpna/US10D_PUBCOMB.seq:*
- 17: /cgn2_6/ptodata/2/pubpna/US10E_PUBCOMB.seq:*
- 18: /cgn2_6/ptodata/2/pubpna/US10F_PUBCOMB.seq:*
- 19: /cgn2_6/ptodata/2/pubpna/US10G_PUBCOMB.seq:*
- 20: /cgn2_6/ptodata/2/pubpna/US10H_PUBCOMB.seq:*
- 21: /cgn2_6/ptodata/2/pubpna/US10I_PUBCOMB.seq:*
- 22: /cgn2_6/ptodata/2/pubpna/US10J_NEW_PUB.seq:*
- 23: /cgn2_6/ptodata/2/pubpna/US11A_PUBCOMB.seq:*
- 24: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*
- 25: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
- 26: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	100.0	20	21	US-10-773-678-342
2	19	95.0	20	21	US-10-773-678-179
3	19	95.0	20	21	US-10-773-678-341
4	18	90.0	20	21	US-10-773-678-343
5	17	85.0	20	21	US-10-773-678-340
6	17	85.0	20	21	US-10-773-678-344
7	16	80.0	20	22	US-10-857-715-201

8	15	75.0	20	21	US-10-773-678-339	Sequence 339, App
9	15	75.0	20	21	US-10-773-678-345	Sequence 345, App
10	14	70.0	20	9	US-09-758-881-19	Sequence 19, Appl
11	14	70.0	20	21	US-10-773-678-19	Sequence 19, Appl
12	13.6	68.0	20	19	US-10-671-395-1012	Sequence 1012, Ap
13	12.8	64.0	17	17	US-10-339-674-1350	Sequence 1350, Ap
14	12.8	64.0	18	17	US-10-339-674-1351	Sequence 1351, Ap
15	12.8	64.0	19	17	US-10-339-674-1348	Sequence 1348, Ap
16	12.8	64.0	19	17	US-10-339-674-1349	Sequence 1349, Ap
17	12.8	64.0	20	9	US-09-752-639-134	Sequence 134, App
18	12.8	64.0	20	9	US-09-984-198-134	Sequence 134, App
19	12.8	64.0	20	21	US-10-967-092-134	Sequence 134, App
20	12.8	64.0	20	24	US-11-011-500-134	Sequence 134, App
21	12.6	63.0	20	19	US-10-671-395-571	Sequence 571, App
22	12.6	63.0	20	19	US-10-671-395-1013	Sequence 1013, Ap
23	12.4	62.0	17	22	US-10-984-919-1512	Sequence 1512, Ap
24	12.4	62.0	20	14	US-10-138-316-79	Sequence 79, Appl
25	12.4	62.0	20	16	US-10-368-643-79	Sequence 79, Appl
26	12.4	62.0	20	19	US-10-714-796-129	Sequence 129, App
27	12.4	62.0	20	19	US-10-714-796-161	Sequence 161, App
28	12.4	62.0	20	20	US-10-861-520-79	Sequence 79, Appl
29	12.4	62.0	20	21	US-10-911-678-79	Sequence 79, Appl
30	12.2	61.0	17	9	US-09-866-108-8114	Sequence 8114, Ap
31	12.2	61.0	17	10	US-09-730-2898-544	Sequence 544, App
32	12.2	61.0	17	19	US-10-723-361-8114	Sequence 8114, Ap
33	12.2	61.0	20	19	US-10-671-395-507	Sequence 507, App
34	12.2	61.0	20	19	US-10-671-395-692	Sequence 692, App
35	12.2	61.0	20	21	US-10-719-900-383106	Sequence 383106,
36	12.2	61.0	20	22	US-10-719-956-271624	Sequence 271624,
37	12	60.0	20	17	US-10-349-143-8500	Sequence 8500, Ap
38	11.8	59.0	17	10	US-09-780-533A-91	Sequence 91, Appl
39	11.8	59.0	17	10	US-09-780-533A-92	Sequence 92, Appl
40	11.8	59.0	17	15	US-09-780-533A-997	Sequence 997, App
41	11.8	59.0	17	15	US-10-060-998-225	Sequence 225, App
42	11.8	59.0	17	15	US-10-060-998-226	Sequence 226, App
43	11.8	59.0	17	15	US-10-060-998-227	Sequence 227, App
44	11.8	59.0	19	22	US-10-888-226-346	Sequence 346, App
45	11.8	59.0	19	22	US-10-888-226-760	Sequence 760, App
46	11.8	59.0	19	22	US-10-923-522-70	Sequence 70, Appl
47	11.8	59.0	19	22	US-10-923-522-333	Sequence 333, App
48	11.8	59.0	20	14	US-10-181-177-130	Sequence 130, App
49	11.8	59.0	20	14	US-10-339-674-1183	Sequence 1183, Ap
50	11.8	59.0	20	17	US-10-339-674-1184	Sequence 1184, Ap
51	11.6	58.0	20	10	US-09-972-115A-29	Sequence 29, Appl
52	11.6	58.0	20	16	US-10-167-241-11	Sequence 11, Appl
53	11.6	58.0	20	16	US-10-168-517-8	Sequence 8, Appl
54	11.6	58.0	20	16	US-10-369-378-38	Sequence 38, Appl
55	11.6	58.0	20	16	US-10-369-378-39	Sequence 39, Appl
56	11.6	58.0	20	16	US-10-199-937-173	Sequence 173, App
57	11.6	58.0	20	16	US-10-199-937-174	Sequence 174, App
58	11.6	58.0	20	17	US-10-181-874-49	Sequence 49, Appl
59	11.6	58.0	20	17	US-10-380-873B-18	Sequence 18, Appl
60	11.6	58.0	20	18	US-10-168-853-8	Sequence 8, Appl
61	11.6	58.0	20	19	US-10-671-395-340	Sequence 340, App
62	11.4	57.0	15	19	US-10-698-689-110	Sequence 110, App
63	11.4	57.0	15	21	US-10-946-498A-12	Sequence 12, Appl
64	11.4	57.0	15	22	US-10-984-919-1599	Sequence 1599, Ap
65	11.4	57.0	15	22	US-10-763-367A-13	Sequence 13, Appl
66	11.4	57.0	16	17	US-10-415-247-8	Sequence 8, Appl
67	11.4	57.0	17	9	US-09-866-108-115	Sequence 115, App
68	11.4	57.0	17	9	US-09-866-108-116	Sequence 116, App
69	11.4	57.0	17	9	US-09-866-108-117	Sequence 117, App
70	11.4	57.0	17	9	US-09-866-108-118	Sequence 118, App
71	11.4	57.0	17	9	US-09-866-108-119	Sequence 119, App
72	11.4	57.0	17	9	US-09-866-108-6215	Sequence 6215, Ap
73	11.4	57.0	17	9	US-09-866-108-6216	Sequence 6216, Ap
74	11.4	57.0	17	9	US-09-866-108-6217	Sequence 6217, Ap
75	11.4	57.0	17	9	US-09-866-108-6218	Sequence 6218, Ap
76	11.4	57.0	17	9	US-09-866-108-6219	Sequence 6219, Ap
77	11.4	57.0	17	14	US-10-060-830-121	Sequence 121, App
78	11.4	57.0	17	14	US-10-060-830-122	Sequence 122, App
79	11.4	57.0	17	14	US-10-060-830-123	Sequence 123, App
80	11.4	57.0	17	14	US-10-060-830-124	Sequence 124, App

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c 81 11.4 57.0 17 14 US-10-060-830-125 Sequence 125, App
c 82 11.4 57.0 17 19 US-10-723-361-115 Sequence 115, App
c 83 11.4 57.0 17 19 US-10-723-361-116 Sequence 116, App
c 84 11.4 57.0 17 19 US-10-723-361-117 Sequence 117, App
c 85 11.4 57.0 17 19 US-10-723-361-118 Sequence 118, App
c 86 11.4 57.0 17 19 US-10-723-361-119 Sequence 119, App
c 87 11.4 57.0 17 19 US-10-723-361-120 Sequence 120, App
c 88 11.4 57.0 17 19 US-10-723-361-121 Sequence 121, App
c 89 11.4 57.0 17 19 US-10-723-361-122 Sequence 122, App
c 90 11.4 57.0 17 19 US-10-723-361-123 Sequence 123, App
c 91 11.4 57.0 17 19 US-10-723-361-124 Sequence 124, App
c 92 11.4 57.0 20 17 US-09-906-158-19 Sequence 19, Appl
c 93 11.4 57.0 20 17 US-10-388-263-468 Sequence 468, App
c 94 11.4 57.0 20 17 US-10-289-762-6247 Sequence 6247, App
c 95 11.4 57.0 20 17 US-10-363-198-51 Sequence 51, Appl
c 96 11.4 57.0 20 19 US-10-316-516-76 Sequence 76, Appl
c 97 11.4 57.0 20 19 US-10-316-516-129 Sequence 129, App
c 98 11.4 57.0 20 19 US-10-714-796-168 Sequence 168, App
c 99 11.4 57.0 20 22 US-10-257-158A-7002 Sequence 7002, App
c 100 11.4 57.0 20 24 US-11-039-629-253 Sequence 253, App
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ALIGNMENTS

```
RESULT 1
US-10-773-678-342
; Sequence 342, Application US/10773678
; Publication No. US20050074879A1
; GENERAL INFORMATION:
; APPLICANT: Karras, James G
; TITLE OF INVENTION: Antisense Oligonucleotide Modulation of STAT3
; FILE REFERENCE: ISPH-0828
; CURRENT APPLICATION NUMBER: US/10/773,678
; CURRENT FILING DATE: 2004-02-06
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 10/713,139
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 09/758,881
; PRIOR FILING DATE: 2001-01-11
; PRIOR APPLICATION NUMBER: PCT/US00/09054
; PRIOR FILING DATE: 2000-04-06
; PRIOR APPLICATION NUMBER: 09/288,461
; PRIOR FILING DATE: 1999-04-08
; NUMBER OF SEQ ID NOS: 402
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 342
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense oligonucleotide
US-10-773-678-342
```

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Query Match 100.0%; Score 20; DB 21; Length 20;
Best Local Similarity 100.0%; Pred. No. 2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GACTCTTGACGAGGCGCT 20
| | | | | | | | | | | | | | | | | |
Db 1 GACTCTTGACGAGGCGCT 20
```

```
RESULT 2
US-10-773-678-179
; Sequence 179, Application US/10773678
; Publication No. US20050074879A1
; GENERAL INFORMATION:
; APPLICANT: Karras, James G
; TITLE OF INVENTION: Antisense Oligonucleotide Modulation of STAT3
; FILE REFERENCE: ISPH-0828
; CURRENT APPLICATION NUMBER: US/10/773,678
```

```
; CURRENT FILING DATE: 2004-02-06
; PRIOR APPLICATION NUMBER: 10/713,139
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 09/758,881
; PRIOR FILING DATE: 2001-01-11
; PRIOR APPLICATION NUMBER: PCT/US00/09054
; PRIOR FILING DATE: 2000-04-06
; PRIOR APPLICATION NUMBER: 09/288,461
; PRIOR FILING DATE: 1999-04-08
; NUMBER OF SEQ ID NOS: 402
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 179
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense oligonucleotide
US-10-773-678-179
```

```
Query Match 95.0%; Score 19; DB 21; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.5;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 GACTCTTGACGAGGCGGC 19
| | | | | | | | | | | | | | | |
Db 2 GACTCTTGACGAGGCGGC 20
```

```
RESULT 3
US-10-773-678-341
; Sequence 341, Application US/10773678
; Publication No. US20050074879A1
; GENERAL INFORMATION:
; APPLICANT: Karras, James G
; TITLE OF INVENTION: Antisense Oligonucleotide Modulation of STAT3
; FILE REFERENCE: ISPH-0828
; CURRENT APPLICATION NUMBER: US/10/773,678
; CURRENT FILING DATE: 2004-02-06
; PRIOR APPLICATION NUMBER: 10/713,139
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 09/758,881
; PRIOR FILING DATE: 2001-01-11
; PRIOR APPLICATION NUMBER: PCT/US00/09054
; PRIOR FILING DATE: 2000-04-06
; PRIOR APPLICATION NUMBER: 09/288,461
; PRIOR FILING DATE: 1999-04-08
; NUMBER OF SEQ ID NOS: 402
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 341
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense oligonucleotide
US-10-773-678-341
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Query Match 95.0%; Score 19; DB 21; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.5;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY 2 ACTCTTGACGAGGCGGCT 20
| | | | | | | | | | | | | | | |
Db 1 ACTCTTGACGAGGCGGCT 19
```

```
RESULT 4
US-10-773-678-343
; Sequence 343, Application US/10773678
; Publication No. US20050074879A1
; GENERAL INFORMATION:
; APPLICANT: Karras, James G
; TITLE OF INVENTION: Antisense Oligonucleotide Modulation of STAT3
```


US-10-773-678-339

GENERAL INFORMATION:
; APPLICANT: Karras, James G
; TITLE OF INVENTION: Antisense Oligonucleotide Modulation of STAT3
; FILE REFERENCE: ISPH-0828
; CURRENT APPLICATION NUMBER: US/10/773,678
; CURRENT FILING DATE: 2004-02-06
; PRIOR FILING DATE: 10/713,139
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 09/758,881
; PRIOR FILING DATE: 2001-01-11
; PRIOR APPLICATION NUMBER: PCT/US00/09054
; PRIOR FILING DATE: 2000-04-06
; PRIOR APPLICATION NUMBER: 09/288,461
; PRIOR FILING DATE: 1999-04-08
; NUMBER OF SEQ ID NOS: 402
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 339
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense oligonucleotide

Query Match 75.0%; Score 15; DB 21; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.1e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 6 TTGCAGGAAGCGGCT 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TTGCAGGAAGCGGCT 15

RESULT 9

US-10-773-678-345

Sequence 345, Application US/10773678
Publication No. US20050074879A1
GENERAL INFORMATION:
; APPLICANT: Karras, James G
; TITLE OF INVENTION: Antisense Oligonucleotide Modulation of STAT3
; FILE REFERENCE: ISPH-0828
; CURRENT APPLICATION NUMBER: US/10/773,678
; CURRENT FILING DATE: 2004-02-06
; PRIOR FILING DATE: 10/713,139
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 09/758,881
; PRIOR FILING DATE: 2001-01-11
; PRIOR APPLICATION NUMBER: PCT/US00/09054
; PRIOR FILING DATE: 2000-04-06
; PRIOR APPLICATION NUMBER: 09/288,461
; PRIOR FILING DATE: 1999-04-08
; NUMBER OF SEQ ID NOS: 402
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 345
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense oligonucleotide

Query Match 75.0%; Score 15; DB 21; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.1e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GACTCTTGCGAGG 15
| | | | | | | | | | | | | | | | | | | | | |
Db 6 GACTCTTGCGAGG 20

RESULT 10

US-09-758-881-19

Sequence 19, Application US/09758881
Patent No. US20010029250A1
GENERAL INFORMATION:
; APPLICANT: Karras, James G
; TITLE OF INVENTION: Antisense Oligonucleotide Modulation of STAT3
; FILE REFERENCE: ISPH-0532
; CURRENT APPLICATION NUMBER: US/09/758,881
; CURRENT FILING DATE: 2001-01-11
; PRIOR APPLICATION NUMBER: PCT/US00/09054
; PRIOR FILING DATE: 2000-04-06
; PRIOR APPLICATION NUMBER: 09/288,461
; PRIOR FILING DATE: 1999-04-08
; NUMBER OF SEQ ID NOS: 152
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 19
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic

Query Match 70.0%; Score 14; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.7e+03;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GACTCTTGCGAGG 14
| | | | | | | | | | | | | | | | | | | | | |
Db 7 GACTCTTGCGAGG 20

RESULT 11

US-10-773-678-19

Sequence 19, Application US/10773678
Publication No. US20050074879A1
GENERAL INFORMATION:
; APPLICANT: Karras, James G
; TITLE OF INVENTION: Antisense Oligonucleotide Modulation of STAT3
; FILE REFERENCE: ISPH-0828
; CURRENT APPLICATION NUMBER: US/10/773,678
; CURRENT FILING DATE: 2004-02-06
; PRIOR FILING DATE: 10/713,139
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 09/758,881
; PRIOR FILING DATE: 2001-01-11
; PRIOR APPLICATION NUMBER: PCT/US00/09054
; PRIOR FILING DATE: 2000-04-06
; PRIOR APPLICATION NUMBER: 09/288,461
; PRIOR FILING DATE: 1999-04-08
; NUMBER OF SEQ ID NOS: 402
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 19
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic

Query Match 70.0%; Score 14; DB 21; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.7e+03;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GACTCTTGCGAGG 14
| | | | | | | | | | | | | | | | | | | | | |
Db 7 GACTCTTGCGAGG 20

RESULT 12
US-10-671-395-1012/c


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; Sequence 1012, Application US/10671395
; Publication No. US20040132063A1
; GENERAL INFORMATION:
; APPLICANT: Pharmacia Corp.
; APPLICANT: Gierse, James K
; TITLE OF INVENTION: ANTISENSE MODULATION OF MICROSOMAL PROSTAGLANDIN E2 SYNTHASE
; FILE REFERENCE: 1179/1/US
; CURRENT APPLICATION NUMBER: US/10/671,395
; CURRENT FILING DATE: 2003-09-25
; PRIOR APPLICATION NUMBER: 60/413,549
; PRIOR FILING DATE: 2002-09-25
; NUMBER OF SEQ ID NOS: 1809
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1012
; LENGTH: 20
; TYPE: DNA
; ORGANISM: artificial
; FEATURE:
; OTHER INFORMATION: Human PGE2 antisense
US-10-671-395-1012

Query Match      68.0%; Score 13.6; DB 19; Length 20;
Best Local Similarity 80.0%; Pred. No. 4.4e+03;
Matches 16; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 GACTCTTCGACGAAGCGGCT 20
   ||||| ||||| ||||| |||||
DB 20 GATTCTCTGCACGAAGTGGCT 1

RESULT 13
US-10-339-674-1350/c
; Sequence 1350, Application US/10339674
; Publication No. US20030204318A1
; GENERAL INFORMATION:
; APPLICANT: Feldmann, Richard J.; Global Determinants, Inc.
; TITLE OF INVENTION: Escherichia coli K-12 MG1655 complete genome.
; FILE REFERENCE: Jim Zeeger Law Offices - 703-684-8333
; CURRENT APPLICATION NUMBER: US/10/339,674
; CURRENT FILING DATE: 2003-06-06
; NUMBER OF SEQ ID NOS: 3537
; SOFTWARE: Proprietary
; SEQ ID NO 1350
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Escherichia coli K-12 MG1655 complete genome.
; FEATURE:
; LOCATION: (1734068)...(1734084)
; OTHER INFORMATION: Chromosome = 1 Strand = positive ConnectronObjectNumber = 1777
US-10-339-674-1350

Query Match      64.0%; Score 12.8; DB 17; Length 17;
Best Local Similarity 87.5%; Pred. No. 1.1e+04;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 4 TCTTGCAGGAAGCGGC 19
   ||||| ||||| ||||| |||||
DB 17 TCTTGCAGGATCGGC 2

RESULT 14
US-10-339-674-1351
; Sequence 1351, Application US/10339674
; Publication No. US20030204318A1
; GENERAL INFORMATION:
; APPLICANT: Feldmann, Richard J.; Global Determinants, Inc.
; TITLE OF INVENTION: Escherichia coli K-12 MG1655 complete genome.
; FILE REFERENCE: Jim Zeeger Law Offices - 703-684-8333
; CURRENT APPLICATION NUMBER: US/10/339,674
; CURRENT FILING DATE: 2003-06-06
; NUMBER OF SEQ ID NOS: 3537
; SOFTWARE: Proprietary
US-10-339-674-1351
```

```
; SEQ ID NO 1351
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Escherichia coli K-12 MG1655 complete genome.
; FEATURE:
; LOCATION: (1734068)...(1734085)
; OTHER INFORMATION: Chromosome = 1 Strand = negative ConnectronObjectNumber = 1778
US-10-339-674-1351

Query Match      64.0%; Score 12.8; DB 17; Length 18;
Best Local Similarity 87.5%; Pred. No. 1.1e+04;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 4 TCTTGCAGGAAGCGGC 19
   ||||| ||||| ||||| |||||
DB 2 TCTTGCAGGATCGGC 17

RESULT 15
US-10-339-674-1348/c
; Sequence 1348, Application US/10339674
; Publication No. US20030204318A1
; GENERAL INFORMATION:
; APPLICANT: Feldmann, Richard J.; Global Determinants, Inc.
; TITLE OF INVENTION: Escherichia coli K-12 MG1655 complete genome.
; FILE REFERENCE: Jim Zeeger Law Offices - 703-684-8333
; CURRENT APPLICATION NUMBER: US/10/339,674
; CURRENT FILING DATE: 2003-06-06
; NUMBER OF SEQ ID NOS: 3537
; SOFTWARE: Proprietary
; SEQ ID NO 1348
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Escherichia coli K-12 MG1655 complete genome.
; FEATURE:
; LOCATION: (1734067)...(1734085)
; OTHER INFORMATION: Chromosome = 1 Strand = positive ConnectronObjectNumber = 177
US-10-339-674-1348

Query Match      64.0%; Score 12.8; DB 17; Length 19;
Best Local Similarity 87.5%; Pred. No. 1.1e+04;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 4 TCTTGCAGGAAGCGGC 19
   ||||| ||||| ||||| |||||
DB 18 TCTTGCAGGATCGGC 3

RESULT 16
US-10-339-674-1349
; Sequence 1349, Application US/10339674
; Publication No. US20030204318A1
; GENERAL INFORMATION:
; APPLICANT: Feldmann, Richard J.; Global Determinants, Inc.
; TITLE OF INVENTION: Escherichia coli K-12 MG1655 complete genome.
; FILE REFERENCE: Jim Zeeger Law Offices - 703-684-8333
; CURRENT APPLICATION NUMBER: US/10/339,674
; CURRENT FILING DATE: 2003-06-06
; NUMBER OF SEQ ID NOS: 3537
; SOFTWARE: Proprietary
; SEQ ID NO 1349
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Escherichia coli K-12 MG1655 complete genome.
; FEATURE:
; LOCATION: (1734067)...(1734085)
; OTHER INFORMATION: Chromosome = 1 Strand = negative ConnectronObjectNumber = 177
US-10-339-674-1349

Query Match      64.0%; Score 12.8; DB 17; Length 19;
Best Local Similarity 87.5%; Pred. No. 1.1e+04;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 4 TCTTGCAGGAAGCGGC 19
   ||||| ||||| ||||| |||||
DB 18 TCTTGCAGGATCGGC 3
```

QY 4 TCTTGCAGGAGCGGC 19
||||| ||| ||| |||
Db 2 TCTTCCGAGAGCTGC 17

RESULT 17

US-09-752-639-134
; Sequence 134, Application US/09752639
; Patent No. US20020091243A1
; GENERAL INFORMATION:
; APPLICANT: Gatanaga, T.
; APPLICANT: Granger, G.A.
; TITLE OF INVENTION: Factors Altering Tumor Necrosis
; TITLE OF INVENTION: Factor Receptor Releasing Enzyme Activity, and Methods
; TITLE OF INVENTION: of Use Thereof
; NUMBER OF SEQUENCES: 154
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORRISON & FOERSTER
; STREET: 755 PAGE MILL ROAD
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304-1018
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows
; SOFTWARE: FastSEQ for Windows Version 2.0b
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/752,639
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US99/10793
; FILING DATE:
; APPLICATION NUMBER: 09/081,385
; FILING DATE:
; APPLICATION NUMBER: 08/964,747
; FILING DATE: 05-NOV-1997
; APPLICATION NUMBER: 60/030,761
; FILING DATE: 06-NOV-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Wu, Frank
; REGISTRATION NUMBER: 41,386
; REFERENCE/DOCKET NUMBER: 22000-20577.21
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-813-5600
; TELEFAX: 650-494-0792
; TELEX: 706141
; INFORMATION FOR SEQ ID NO: 134:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear

US-09-752-639-134
Query Match 64.0%; Score 12.8; DB 9; Length 20;
Best Local Similarity 87.5%; Pred. No. 1.1e+04;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 4 TCTTGCAGGAGCGGC 19
||||| ||| ||| |||
Db 1 TCTTCCGAGAGCTGC 16

US-09-752-639-134
Query Match 64.0%; Score 12.8; DB 9; Length 20;
Best Local Similarity 87.5%; Pred. No. 1.1e+04;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 4 TCTTGCAGGAGCGGC 19
||||| ||| ||| |||
Db 1 TCTTCCGAGAGCTGC 16

US-09-752-639-134
Query Match 64.0%; Score 12.8; DB 9; Length 20;
Best Local Similarity 87.5%; Pred. No. 1.1e+04;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 4 TCTTGCAGGAGCGGC 19
||||| ||| ||| |||
Db 1 TCTTCCGAGAGCTGC 16

RESULT 18

US-09-984-198-134
; Sequence 134, Application US/09984198
; Patent No. US20020106679A1
; GENERAL INFORMATION:
; APPLICANT: Gatanaga, T.
; APPLICANT: Granger, G.A.

; TITLE OF INVENTION: Factors Altering Tumor Necrosis
; TITLE OF INVENTION: Factor Receptor Releasing Enzyme Activity, and Methods
; TITLE OF INVENTION: of Use Thereof
; NUMBER OF SEQUENCES: 154
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORRISON & FOERSTER
; STREET: 755 PAGE MILL ROAD
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304-1018
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows
; SOFTWARE: FastSEQ for Windows Version 2.0b
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/984,198
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US99/10793
; FILING DATE:
; APPLICATION NUMBER: 09/081,385
; FILING DATE:
; APPLICATION NUMBER: 08/964,747
; FILING DATE: 05-NOV-1997
; APPLICATION NUMBER: 60/030,761
; FILING DATE: 06-NOV-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Wu, Frank
; REGISTRATION NUMBER: 41,386
; REFERENCE/DOCKET NUMBER: 22000-20577.21
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-813-5600
; TELEFAX: 650-494-0792
; TELEX: 706141
; INFORMATION FOR SEQ ID NO: 134:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear

US-09-984-198-134
Query Match 64.0%; Score 12.8; DB 9; Length 20;
Best Local Similarity 87.5%; Pred. No. 1.1e+04;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 4 TCTTGCAGGAGCGGC 19
||||| ||| ||| |||
Db 1 TCTTCCGAGAGCTGC 16

US-10-967-092-134
; Sequence 134, Application US/10967092
; Publication No. US20050090647A1
; GENERAL INFORMATION:
; APPLICANT: Gatanaga, T.
; APPLICANT: Granger, G.A.

US-10-967-092-134
; Sequence 134, Application US/10967092
; Publication No. US20050090647A1
; GENERAL INFORMATION:
; APPLICANT: Gatanaga, T.
; APPLICANT: Granger, G.A.

RESULT 19

US-10-967-092-134
; Sequence 134, Application US/10967092
; Publication No. US20050090647A1
; GENERAL INFORMATION:
; APPLICANT: Gatanaga, T.
; APPLICANT: Granger, G.A.
; TITLE OF INVENTION: Factors Altering Tumor Necrosis
; Factor Receptor Releasing Enzyme Activity, and Methods
; of Use Thereof
; NUMBER OF SEQUENCES: 154
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORRISON & FOERSTER
; STREET: 755 PAGE MILL ROAD
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304-1018
; COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows
SOFTWARE: FastSeq for Windows Version 2.0b
CURRENT APPLICATION DATA: US/10/967,092
FILING DATE: 15-Oct-2004
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/712,813
FILING DATE: 13-Nov-2000
APPLICATION NUMBER: US/09/081,385
FILING DATE: <Unknown>
APPLICATION NUMBER: 08/964,747
FILING DATE: 05-Nov-1997
APPLICATION NUMBER: 60/030,761
FILING DATE: 06-Nov-1996
ATTORNEY/AGENT INFORMATION:
NAME: Wu, Frank
REGISTRATION NUMBER: 41,386
REFERENCE/DOCKET NUMBER: 22000-20577.21
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-813-5600
TELEFAX: 650-494-0792
TELEX: 706141
INFORMATION FOR SEQ ID NO: 134:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 134:
US-10-967-092-134
Query Match 64.0%; Score 12.8; DB 21; Length 20;
Best Local Similarity 87.5%; Pred. No. 1.1e+04;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 4 TCTTCAGGAGCGGC 19
DB 1 TCTTCAGGAGCTGC 16
RESULT 20
US-11-011-500-134
; Sequence 134, Application US/11011500
; Publication No. US20050158826A1
; GENERAL INFORMATION:
; APPLICANT: Gatanaga, T.
; Granger, G.A.
; TITLE OF INVENTION: Factors Altering Tumor Necrosis
; Factor Receptor Releasing Enzyme Activity, and Methods
; of Use Thereof
; NUMBER OF SEQUENCES: 154
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORRISON & FOERSTER
; STREET: 755 PAGE MILL ROAD
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304-1018
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows
SOFTWARE: FastSeq for Windows Version 2.0b
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/11/011,500
FILING DATE: 13-Dec-2004
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/10/967,092
FILING DATE: 15-Oct-2004

APPLICATION NUMBER: US/09/712,813
FILING DATE: 13-Nov-2000
APPLICATION NUMBER: US/09/081,385
FILING DATE: <Unknown>
APPLICATION NUMBER: 08/964,747
FILING DATE: 05-Nov-1997
APPLICATION NUMBER: 60/030,761
FILING DATE: 06-Nov-1996
ATTORNEY/AGENT INFORMATION:
NAME: Wu, Frank
REGISTRATION NUMBER: 41,386
REFERENCE/DOCKET NUMBER: 22000-20577.21
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-813-5600
TELEFAX: 650-494-0792
TELEX: 706141
INFORMATION FOR SEQ ID NO: 134:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 134:
US-11-011-500-134
Query Match 64.0%; Score 12.8; DB 24; Length 20;
Best Local Similarity 87.5%; Pred. No. 1.1e+04;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 4 TCTTCAGGAGCGGC 19
DB 1 TCTTCAGGAGCTGC 16
RESULT 21
US-10-671-395-571/c
; Sequence 571, Application US/10671395
; Publication No. US20040132063A1
; GENERAL INFORMATION:
; APPLICANT: Pharmacia Corp.
; APPLICANT: Gierse, James K.
; TITLE OF INVENTION: ANTISENSE MODULATION OF MICROSOMAL PROSTAGLANDIN E2 SYNTHASE
; FILE REFERENCE: 1179/1/US
; CURRENT APPLICATION NUMBER: US/10/671,395
; CURRENT FILING DATE: 2003-09-25
; PRIOR APPLICATION NUMBER: 60/413,549
; PRIOR FILING DATE: 2002-09-25
; NUMBER OF SEQ ID NOS: 1809
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 571
; LENGTH: 20
; TYPE: DNA
; ORGANISM: artificial
; FEATURE:
; OTHER INFORMATION: Human PGE2 antisense
US-10-671-395-571
Query Match 63.0%; Score 12.6; DB 19; Length 20;
Best Local Similarity 78.9%; Pred. No. 1.5e+04;
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
QY 1 GACTCTTCAGGAGCGGC 19
DB 19 GATTCTTCAGGAGTGGC 1
RESULT 22
US-10-671-395-1013/c
; Sequence 1013, Application US/10671395
; Publication No. US20040132063A1
; GENERAL INFORMATION:
; APPLICANT: Pharmacia Corp.

; APPLICANT: Gierse, James K
; TITLE OF INVENTION: ANTISENSE MODULATION OF MICROSOMAL PROSTAGLANDIN E2 SYNTHASE
; FILE REFERENCE: 1179/1/US
; CURRENT APPLICATION NUMBER: US/10/671,395
; PRIOR FILING DATE: 2003-09-25
; PRIOR APPLICATION NUMBER: 60/413,549
; PRIOR FILING DATE: 2002-09-25
; NUMBER OF SEQ ID NOS: 1809
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1013
; LENGTH: 20
; TYPE: DNA
; ORGANISM: artificial
; FEATURE:
; OTHER INFORMATION: Human PGE2 antisense
US-10-671-395-1013

Query Match 63.0%; Score 12.6; DB 19; Length 20;
Best Local Similarity 78.9%; Pred. No. 1.5e+04;
Matches 15; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 2 ACTCTTGCGAGGAGCGGCT 20
| | | | | | | | | | | | | | | | | | | |
Db 20 ATTCTGCGAGGAGTGCGCT 2

RESULT 23
US-10-984-919-1512
; Sequence 1512, Application US/10984919
; Publication No. US20050130927A1
; GENERAL INFORMATION:
; APPLICANT: Schlengersiepen, Karl-Hermann
; APPLICANT: Brysch, Wolfgang
; TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDE PREPARATION METHOD
; FILE REFERENCE: 10496/P63763USO
; CURRENT APPLICATION NUMBER: US/10/984,919
; PRIOR FILING DATE: 2004-11-10
; PRIOR APPLICATION NUMBER: US/09/341,700
; PRIOR FILING DATE: 1999-09-24
; PRIOR APPLICATION NUMBER: PCT/EP98/00497
; PRIOR FILING DATE: 1998-01-30
; PRIOR APPLICATION NUMBER: EP 97 101 531.8
; PRIOR FILING DATE: 1997-01-31
; NUMBER OF SEQ ID NOS: 1764
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1512
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:
; OTHER INFORMATION: antisense oligonucleotide
US-10-984-919-1512

Query Match 62.0%; Score 12.4; DB 22; Length 17;
Best Local Similarity 92.9%; Pred. No. 1.9e+04;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 ACTCTTGCGAGGAG 15
| | | | | | | | | | | | | | | |
Db 4 ACTCTTGCGAGGTAG 17

RESULT 24
US-10-138-316-79/c
; Sequence 79, Application US/10138316
; Publication No. US20030054380A1
; GENERAL INFORMATION:
; APPLICANT: Keating, Mark T.
; APPLICANT: Sanguinetti, Michael C.
; APPLICANT: Splawski, Igor
; TITLE OF INVENTION: MUTATIONS IN THE KCNE1 GENE ENCODING HUMAN MINK WHICH

; TITLE OF INVENTION: CAUSE ARRHYTHMIA SUSCEPTIBILITY THEREBY ESTABLISHING
; TITLE OF INVENTION: KCNE1 AS AN LQT GENE
; FILE REFERENCE: 2323-162
; CURRENT APPLICATION NUMBER: US/10/138,316
; CURRENT FILING DATE: 2002-05-06
; PRIOR APPLICATION NUMBER: 09/444,295
; PRIOR FILING DATE: 1999-11-22
; PRIOR APPLICATION NUMBER: 09/135,020
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: 08/921,068
; PRIOR FILING DATE: 1997-08-29
; PRIOR APPLICATION NUMBER: 08/739,383
; PRIOR FILING DATE: 1996-10-29
; PRIOR APPLICATION NUMBER: 60/019,014
; PRIOR FILING DATE: 1995-12-22
; PRIOR APPLICATION NUMBER: 60/094,477
; PRIOR FILING DATE: 1998-07-29
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 79
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-138-316-79

Query Match 62.0%; Score 12.4; DB 14; Length 20;
Best Local Similarity 92.9%; Pred. No. 1.9e+04;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 7 TGCAGGAGCGGCT 20
| | | | | | | | | | | | | | | | | | | |
Db 18 TGCAGGAGCGGAT 5

RESULT 25
US-10-368-643-79/c
; Sequence 79, Application US/10368643
; Publication No. US20030170708A1
; GENERAL INFORMATION:
; APPLICANT: Keating, Mark T.
; APPLICANT: Sanguinetti, Michael C.
; APPLICANT: Curran, Mark E.
; APPLICANT: Landes, Gregory M.
; APPLICANT: Connors, Timothy D.
; APPLICANT: Burn, Timothy C.
; APPLICANT: Splawski, Igor
; TITLE OF INVENTION: KVLQT1 - A LONG QT SYNDROME GENE
; FILE REFERENCE: 2323-163
; CURRENT APPLICATION NUMBER: US/10/368,643
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 09/597,731
; PRIOR FILING DATE: 2000-06-19
; PRIOR APPLICATION NUMBER: US 09/135,010
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: US 60/094,477
; PRIOR FILING DATE: 1998-07-29
; PRIOR APPLICATION NUMBER: US 08/921,068
; PRIOR FILING DATE: 1997-08-29
; PRIOR APPLICATION NUMBER: US 08/739,383
; PRIOR FILING DATE: 1996-10-29
; PRIOR APPLICATION NUMBER: US 60/019,014
; PRIOR FILING DATE: 1995-12-22
; NUMBER OF SEQ ID NOS: 116
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 79
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-368-643-79

Query Match 62.0%; Score 12.4; DB 16; Length 20;
Best Local Similarity 92.9%; Pred. No. 1.9e+04;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```
QY 7 TGCAGGAAGCGCT 20
Db 18 TGCAGGAAGCGCAT 5

RESULT 26
US-10-714-796-129/c
; Sequence 129, Application US/10714796
; Publication No. US20040180847A1
; GENERAL INFORMATION:
; APPLICANT: Dobie, Kenneth W.
; TITLE OF INVENTION: ANTISENSE MODULATION OF KINESIN-LIKE 1 EXPRESSION
; FILE REFERENCE: ISHT-1004
; CURRENT APPLICATION NUMBER: US/10/714,796
; PRIOR FILING DATE: 2003-11-17
; PRIOR APPLICATION NUMBER: US 10/156,603
; PRIOR FILING DATE: 2002-05-23
; NUMBER OF SEQ ID NOS: 237
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 129
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-714-796-129

Query Match 62.0%; Score 12.4; DB 19; Length 20;
Best Local Similarity 92.9%; Pred. No. 1.9e+04;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 TCTTCAGGAAGCG 17
Db 20 TCTTCAGGAAGTG 7

RESULT 27
US-10-714-796-161/c
; Sequence 161, Application US/10714796
; Publication No. US20040180847A1
; GENERAL INFORMATION:
; APPLICANT: Dobie, Kenneth W.
; TITLE OF INVENTION: ANTISENSE MODULATION OF KINESIN-LIKE 1 EXPRESSION
; FILE REFERENCE: ISHT-1004
; CURRENT APPLICATION NUMBER: US/10/714,796
; PRIOR FILING DATE: 2003-11-17
; PRIOR APPLICATION NUMBER: US 10/156,603
; PRIOR FILING DATE: 2002-05-23
; NUMBER OF SEQ ID NOS: 237
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 161
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-714-796-161

Query Match 62.0%; Score 12.4; DB 19; Length 20;
Best Local Similarity 92.9%; Pred. No. 1.9e+04;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 TCTTCAGGAAGCG 17
Db 19 TCTTCAGGAAGTG 6

RESULT 28
US-10-861-520-79/c
; Sequence 79, Application US/10861520
; Publication No. US20040235038A1
; GENERAL INFORMATION:
; APPLICANT: Keating, Mark T.
; APPLICANT: Sanguinetti, Michael C.

QY 7 TGCAGGAAGCGCT 20
Db 18 TGCAGGAAGCGCAT 5

RESULT 29
US-10-911-678-79/c
; Sequence 79, Application US/10911678
; Publication No. US20050003439A1
; GENERAL INFORMATION:
; APPLICANT: Keating, Mark T.
; APPLICANT: Sanguinetti, Michael C.
; TITLE OF INVENTION: MUTATIONS IN THE KCNE1 GENE ENCODING HUMAN MINIK WHICH CAUSE ARRHYTHMIA SUSCEPTIBILITY THEREBY ESTABLISHING
; FILE REFERENCE: 2323-169
; CURRENT APPLICATION NUMBER: US/10/911,678
; CURRENT FILING DATE: 2004-08-05
; PRIOR FILING DATE: 2002-05-06
; PRIOR APPLICATION NUMBER: 09/444,295
; PRIOR FILING DATE: 1999-11-22
; PRIOR APPLICATION NUMBER: 09/135,020
; PRIOR FILING DATE: 1998-08-17
; PRIOR APPLICATION NUMBER: 08/921,068
; PRIOR FILING DATE: 1997-08-29
; PRIOR APPLICATION NUMBER: 08/739,383
; PRIOR FILING DATE: 1996-10-29
; PRIOR APPLICATION NUMBER: 60/019,014
; PRIOR FILING DATE: 1995-12-22
; PRIOR APPLICATION NUMBER: 60/094,477
; PRIOR FILING DATE: 1998-07-29
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 79
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-911-678-79
```

Query Match 62.0%; Score 12.4; DB 21; Length 20;
Best Local Similarity 92.9%; Pred. No. 1.9e+04;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 7 TGCAGGAAGCGGCT 20
|||||

Db 18 TGCAGGAAGCGGAT 5
|||||

RESULT 30

US-09-866-108-8114
; Sequence 8114, Application US/09866108
; Patent No. US20020048800A1
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharon G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 60/266,860
; PRIOR FILING DATE: 2001-02-05
; NUMBER OF SEQ ID NOS: 15752
; SOFTWARE: Aecomica Sequence Listing Engine
; SEQ ID NO 8114
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108-8114

Query Match 61.0%; Score 12.2; DB 9; Length 17;
Best Local Similarity 82.4%; Pred. No. 2.4e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 4 TCTTGCAGGAAGCGGCT 20
|||||

Db 1 TCTTGCAGGAAGCGGCT 17
|||||

RESULT 31

US-09-730-289B-544/c
; Sequence 544, Application US/09730289B
; Publication No. US20030050259A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Blatt, Larry
; APPLICANT: McSwiggen, Jim
; TITLE OF INVENTION: Method and Reagent for Treatment of Cardiac Disease
; FILE REFERENCE: MHB00-864-A (400/006)
; CURRENT APPLICATION NUMBER: US/09/730,289B
; CURRENT FILING DATE: 2000-12-05
; PRIOR APPLICATION NUMBER: US 60/169,100
; PRIOR FILING DATE: 1999-12-06
; NUMBER OF SEQ ID NOS: 3897
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 544
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-730-289B-544

Query Match 61.0%; Score 12.2; DB 10; Length 17;
Best Local Similarity 82.4%; Pred. No. 2.4e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 2 ACTCTTCGAGGACGG 18
|||||

Db 17 ACTCTTCTAGGAGTGG 1
|||||

RESULT 32

US-10-723-361-8114
; Sequence 8114, Application US/10723361
; Publication No. US20040137589A1
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharon G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: HUMAN MYOSIN-LIKE POLYPEPTIDE EXPRESSED PREDOMINANTLY IN HEART AN
; FILE REFERENCE: PB0105
; CURRENT APPLICATION NUMBER: US/10/723,361
; CURRENT FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: US 09/866,108
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aecomica Sequence Listing Engine
; SEQ ID NO 8114
; LENGTH: 17
; TYPE: DNA

Query Match	61.0%;	Score 12.2;	DB 19;	Length 207;
Best Local Similarity	82.4%;	Pred. No. 2.4e+04;		

FILE REFERENCE: GENSET.020CP1

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; CURRENT APPLICATION NUMBER: US/10/349,143
; CURRENT FILING DATE: 2003-01-21
; PRIOR APPLICATION NUMBER: US/09/422,978
; PRIOR FILING DATE: 1999-10-20
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 09/298,850
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-04-21
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/109,732
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-11-23
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/082,614
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-04-21
; NUMBER OF SEQ ID NOS: 11796
; SEQ ID NO 8500
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: primer_bind
; LOCATION: 1..20
; OTHER INFORMATION: downstream amplification primer 99-15968 for SEQ 635, in compleme
US-10-349-143-8500

Query Match 60.0%; Score 12; DB 17; Length 20;
Best Local Similarity 75.0%; Pred. No. 3e+04;
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 GACTCTTCAGGAGCGGCT 20
Db 20 GACTTTTGCCTAAGCAGAT 1

RESULT 38
US-09-780-533A-91/c
; Sequence 91, Application US/09780533A
; Publication No. US20030060611A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Blatt, Larry
; APPLICANT: McSwiggen, Jim
; APPLICANT: Chowrira, Bharat
; APPLICANT: Haerberli, Pete
; TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO Gene
; FILE REFERENCE: MBH00,878-A (400/011)
; CURRENT APPLICATION NUMBER: US/09/780,533A
; CURRENT FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: US 60/181,797
; PRIOR FILING DATE: 2000-02-11
; NUMBER OF SEQ ID NOS: 6679
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 91
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-780-533A-91

Query Match 59.0%; Score 11.8; DB 10; Length 17;
Best Local Similarity 86.7%; Pred. No. 3.8e+04;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 6 TTGCAGGAAGCGGCT 20
Db 16 TTGAAGAAGCGGCT 2

RESULT 39
US-09-780-533A-92/c
; Sequence 92, Application US/09780533A
; Publication No. US20030060611A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Blatt, Larry
; APPLICANT: McSwiggen, Jim
; APPLICANT: Chowrira, Bharat
; APPLICANT: Haerberli, Pete
```

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; TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO Gene
; FILE REFERENCE: MBH00,878-A (400/011)
; CURRENT APPLICATION NUMBER: US/09/780,533A
; CURRENT FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: US 60/181,797
; PRIOR FILING DATE: 2000-02-11
; NUMBER OF SEQ ID NOS: 6679
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 92
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-780-533A-92

Query Match 59.0%; Score 11.8; DB 10; Length 17;
Best Local Similarity 86.7%; Pred. No. 3.8e+04;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 6 TTGCAGGAAGCGGCT 20
Db 15 TTGAAGAAGCGGCT 1

RESULT 40
US-09-780-533A-997/c
; Sequence 997, Application US/09780533A
; Publication No. US20030060611A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Blatt, Larry
; APPLICANT: McSwiggen, Jim
; APPLICANT: Chowrira, Bharat
; APPLICANT: Haerberli, Pete
; TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO Gene
; FILE REFERENCE: MBH00,878-A (400/011)
; CURRENT APPLICATION NUMBER: US/09/780,533A
; CURRENT FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: US 60/181,797
; PRIOR FILING DATE: 2000-02-11
; NUMBER OF SEQ ID NOS: 6679
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 997
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-780-533A-997

Query Match 59.0%; Score 11.8; DB 10; Length 17;
Best Local Similarity 86.7%; Pred. No. 3.8e+04;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 6 TTGCAGGAAGCGGCT 20
Db 17 TTGAAGAAGCGGCT 3

Search completed: August 6, 2005, 16:35:48
Job time : 342 secs
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GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 6, 2005, 13:40:42 ; Search time 1623 Seconds

(without alignments)
469.061 Million cell updates/sec

Title: US-10-773-678-342

Perfect score: 20
Sequence: 1 gactcttcgaggaagcgct 20Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 34239544 seqs, 19032134700 residues

Total number of hits satisfying chosen parameters: 12452

Minimum DB seq length: 0
Maximum DB seq length: 20Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 100 summaries

Database :

ESR: *
1: gb_esc1:*
2: gb_esc2:*
3: gb_esc3:*
4: gb_esc4:*
5: gb_esc5:*
6: gb_esc6:*
7: gb_esc7:*
8: gb_esc8:*
9: gb_esc9:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	10.6	53.0	20	8	AZ314365 IM0031G07
2	10.4	52.0	18	1	AJ650912 AU650912
3	10.2	51.0	19	6	CD532073 13104 Ara
4	10.2	51.0	20	8	AZ637794 IM0497D20
5	9.6	48.0	20	8	AZ336487 IM0066J13
6	9.4	47.0	19	8	AZ410317 IM0182L02
7	9.4	47.0	19	8	AZ816318 2M0085E05
8	9.4	47.0	20	8	AZ798282 2M0055H05
9	9.4	47.0	19	8	AZ482658 IM0307L16
10	9.4	45.0	19	8	CL661094 PRI0138d
11	9.4	45.0	20	5	BX559186 BX559186
12	8.8	44.0	16	5	BQ587767 E012340w-
13	8.8	44.0	19	8	AZ481008 IM0302N15
14	8.8	44.0	19	8	AZ595942 2M0227L13
15	8.6	43.0	20	9	AJ5959745 AraB1dops
16	8.4	42.0	16	9	AJ587896 AraB1dops
17	8.4	42.0	16	9	AZ397615 IM0162M07
18	8.4	42.0	19	8	AZ413661 IM0197I07
19	8.4	42.0	19	8	AZ759607 IM0552I23
20	8.4	42.0	20	8	AZ597307 IM0410N24
21	8.4	42.0	20	8	AZ827842 2M0104F03
22	8.4	42.0	20	9	AG189193 Pan trogl
23	8.2	41.0	13	5	BQ789829 hage002aH
24	8.2	41.0	18	1	AI042533 cy06e03.x

25	8.2	41.0	18	6	C00629	C00629 HUNG000817
26	8.2	41.0	18	9	CL661466	CL661466 PRI0139d
27	8.2	41.0	19	1	AJ666428	AJ666428 AJ666428
28	8.2	41.0	19	5	BQ587387	BQ587387 S014305-0
29	8.2	41.0	19	8	AZ436324	AZ436324 IM0109P06
30	8.2	41.0	19	8	AZ422762	AZ422762 IM0201P12
31	8.2	41.0	19	8	AZ509071	AZ509071 IM0351A21
32	8.2	41.0	19	8	AZ626779	AZ626779 IM0467A14
33	8.2	41.0	20	8	AZ410583	AZ410583 IM0182E24
34	8.2	41.0	20	9	TA207803Q	TA207803 T. brucei
35	8.2	41.0	19	1	AA163934	AA163934 on14a09.8
36	8.2	41.0	19	3	CNS09MAX	CNS09MAX Single re
37	8.2	41.0	19	8	AZ500630	AZ500630 IM0339A10
38	8.2	41.0	19	8	AZ814554	AZ814554 2M0082P13
39	8.2	41.0	20	7	CF305590	CF305590 HDAL--01-
40	8.2	41.0	20	8	AZ366451	AZ366451 IM0115N07
41	8.2	41.0	20	8	AZ436762	AZ436762 IM0224G12
42	8.2	41.0	20	8	AZ491509	AZ491509 IM0325B05
43	8.2	41.0	20	8	AZ625776	AZ625776 IM0465C08
44	8.2	41.0	20	8	AZ638950	AZ638950 IM0499E08
45	8.2	41.0	20	8	AZ861324	AZ861324 2M0167A13
46	7.8	39.0	15	1	AJ665863	AJ665863 AJ665863
47	7.8	39.0	17	6	CD531254	CD531254 10B19 Ara
48	7.8	39.0	17	6	CD533040	CD533040 23N7 Arab
49	7.8	39.0	17	7	CF305567	CF305567 HDAL--01-
50	7.8	39.0	19	1	AJ590049	AJ590049 AraB1dops
51	7.8	39.0	18	9	AJ660794	AJ660794 AJ660794
52	7.8	39.0	19	7	CF318426	CF318426 HD--08-12
53	7.8	39.0	19	8	AZ810098	AZ810098 2M0074N21
54	7.8	39.0	19	8	AZ824929	AZ824929 2M0099P16
55	7.8	39.0	19	8	AZ847888	AZ847888 2M0148G07
56	7.8	39.0	19	8	AZ959942	AZ959942 2M0227L13
57	7.8	39.0	20	1	AL039677	AL039677 DKEZ0434H
58	7.8	39.0	20	1	AL045408	AL045408 DKEZ0434E
59	7.8	39.0	20	8	AQ074235	AQ074235 21 PUC8 P
60	7.8	39.0	20	8	AZ482160	AZ482160 IM0307G09
61	7.8	39.0	20	8	AZ483003	AZ483003 IM0308G19
62	7.8	39.0	20	8	AZ665334	AZ665334 IM0546A14
63	7.8	39.0	20	8	AZ779169	AZ779169 2M0015N08
64	7.8	39.0	20	8	AZ787369	AZ787369 2M0033C19
65	7.8	39.0	20	8	AZ946089	AZ946089 2M0207A13
66	7.8	39.0	20	8	AZ961140	AZ961140 2M0229P20
67	7.8	39.0	20	9	AG203570	AG203570 Pan trogl
68	7.8	39.0	14	9	CL659921	CL659921 PRI0135C
69	7.6	38.0	17	4	BM395339	BM395339 50072-2-5
70	7.6	38.0	19	1	AI138366	AI138366 q053b01.x
71	7.6	38.0	19	1	AJ657561	AJ657561 AJ657561
72	7.6	38.0	19	8	AZ377971	AZ377971 IM0132I03
73	7.6	38.0	19	8	AZ798955	AZ798955 2M0056K01
74	7.6	38.0	19	9	CL436591	CL436591 PST3313-N
75	7.6	38.0	20	8	AZ308311	AZ308311 IM0011J12
76	7.6	38.0	20	8	AZ611227	AZ611227 IM0436E13
77	7.6	38.0	20	8	AZ757505	AZ757505 2M0008P11
78	7.6	38.0	20	8	AZ828387	AZ828387 2M0105P13
79	7.4	37.0	11	9	AJ600625	AJ600625 AraB1dops
80	7.4	37.0	12	1	AJ648301	AJ648301 AJ648301
81	7.4	37.0	15	6	CA851710	CA851710 D16F12 L2
82	7.4	37.0	16	1	AA881100	AA881100 v206d08.r
83	7.4	37.0	16	7	CF920788	CF920788 gmtHrw3.r
84	7.4	37.0	16	7	AJ595245	AJ595245 AraB1dops
85	7.4	37.0	17	2	AM247673	AM247673 2820207.5
86	7.4	37.0	17	4	BG927979	BG927979 HNC45-1-G
87	7.4	37.0	17	5	BQ51885	BQ51885 IM02580-0
88	7.4	37.0	17	9	AJ589127	AJ589127 AraB1dops
89	7.4	37.0	18	6	CA853355	CA853355 B07C12.se
90	7.4	37.0	18	6	CA853355	CA853355 B07C12.se
91	7.4	37.0	19	1	AI663799	AI663799 u106a10.r
92	7.4	37.0	19	3	CNS08V62	CNS08V62 Single re
93	7.4	37.0	19	7	CK576562	CK576562 IGT WTS.1
94	7.4	37.0	19	8	AZ314110	AZ314110 IM0030E16
95	7.4	37.0	19	8	AZ794653	AZ794653 2M0048G05
96	7.4	37.0	19	8	AZ804026	AZ804026 2M0064007
97	7.4	37.0	19	8	AZ828745	AZ828745 2M0105J19

c 98 7.4 37.0 20 2 AM246466 2821777.3
99 7.4 37.0 20 7 CF339443
100 7.4 37.0 20 7 CF921355 CF921355 gmirRw3-

ALIGNMENTS

RESULT 1

AZ314365/c

LOCUS 20 bp DNA linear GSS 29-SEP-2000
DEFINITION 1M003107F Mouse 10kb plasmid UUGC1M library Mus musculus genomic
clone UUGC1M0031G07 F, genomic survey sequence.

ACCESSION

AZ314365

VERSION

AZ314365.1

KEYWORDS

GSS

SOURCE

ORGANISM

Mus musculus

Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

REFERENCE

1 (bases 1 to 20)

Dunn, D., Royagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,

Islam, H., Longacre, S., Mamoud, M., Meenan, E., Pedersen, T.,

Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von

Niederhausern, A. and Wright, D., Weis, R.

Mouse whole genome scaffolding with paired end reads from 10kb

plasmid inserts

Unpublished (2000)

Contact: Robert B. Weiss

University of Utah

Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLIC, UT

84112, USA

Tel: 801 585 5606

Fax: 801 585 7177

Email: ddunn@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00

Plate: 0031 row: G column: 07

Seq primer: CGTGTAAAGACGCGCCAGT

Class: plasmid ends

High quality sequence stop: 20.

Location/Qualifiers

1..20

/organism="Mus musculus"

/mol_type="genomic DNA"

/strain="C57BL/6J"

/db_xref="taxon:10090"

/clone="UUGC1M0031G07"

/sex="Male"

/lab_host="E. Coli strain XL10-GOLD, T1-resistant, F-"

/clone_lib="Mouse 10kb plasmid UUGC1M library"

/note="Vector: PWD42nv; Purified genomic DNA from M.

musculus C57BL/6J (male) was obtained from the Jackson

Laboratory Mouse DNA Resource

(http://www.jax.org/resources/documents/dnares/). The DNA

was hydrodynamically sheared by repeated passage through a

0.005 inch orifice at constant velocity. The sheared DNA

was blunt end-repaired with T4 DNA polymerase and T4

polynucleotide kinase. Adaptor oligonucleotides were

ligated to the blunt ends in high molar excess. The

adapted DNA was purified and size-selected for a 9.5 to

10.5 kb range using preparative agarose gel

electrophoresis. Vector DNA was prepared from a derivative

of pWD42 (gi|4732114|gb|AF129072.1), a copy-number

inducible derivative of plasmid R1. The vector was ligated

with adaptors complementary to the insert adaptors and

purified. The sheared, adapted mouse DNA was annealed to

adapted vector DNA, and transformed into

chemically-competent E. coli XL10-GOLD (Stratagene) cells

and selected for ampicillin resistance."

Best Local Similarity 76.5%; Pred. No. 1.6e+06;
Matches 13; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
Qy 4 TCTGACGAGACGGCT 20
Db 20 TCTTCAGGAGACAGCT 4

RESULT 2

AJ650912/c

LOCUS 18 bp mRNA linear EST 07-JUL-2004
DEFINITION AJ650912 CSEORAN19 Sus scrofa cDNA clone C0003276_L01, mRNA
sequence.

ACCESSION

AJ650912

VERSION

AJ650912.1

KEYWORDS

EST

SOURCE

ORGANISM

Sus scrofa (pig)

Mammalia; Eutheria; Cetartiodactyla; Suidae; Sus.

REFERENCE

1 (bases 1 to 18)

Anderson, S.I., Finlayson, H.A. and Archibald, A.L.

Development of cDNA and EST resources for studying reproduction and

embryo development in pigs and cattle

unpublished (2004)

Contact: Anderson SI

Genomics and Bioinformatics

Roslin Institute

Roslin, Midlothian, EH25 9PS, UNITED KINGDOM

Single pass sequencing. Bases called and trimmed with phred

v0.020425.c. Vector identified by cross-match with the -mncore 20

and -mismatch 12 options. Vector:pbuScript11(KS) R. Site1: EcorI

R. Site2: NotI 5' Seq Primer M13J Normalised library constructed

from pooled ovaries. Clones available from UK Centre for Functional

Genomics in Farm Animals, Roslin Institute, Roslin, Midlothian, UK,

EH25 9PS, www.atk-genomics.org.

Location/Qualifiers

1..18

/organism="Sus scrofa"

/mol_type="mRNA"

/db_xref="taxon:9823"

/clone="C0003276_L01"

/tissue_type="ovary"

/clone_lib="CSEORAN19"

/note="Vector: pbuScript11 (KS+); Site 1: EcorI; Site 2:

NotI; Single pass sequencing; Normalised library

constructed from pooled ovaries"

Location/Qualifiers

1..18

/organism="Sus scrofa"

/mol_type="mRNA"

/db_xref="taxon:9823"

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/clone_lib="CSEORAN19"

/note="Vector: pbuScript11 (KS+); Site 1: EcorI; Site 2:

NotI; Single pass sequencing; Normalised library

constructed from pooled ovaries"

Location/Qualifiers

1..18

/organism="Sus scrofa"

/mol_type="mRNA"

/db_xref="taxon:9823"

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/tissue_type="ovary"

/clone_lib="CSEORAN19"

/note="Vector: pbuScript11 (KS+); Site 1: EcorI; Site 2:

NotI; Single pass sequencing; Normalised library

constructed from pooled ovaries"

FEATURES

source

1..18

/organism="Sus scrofa"

/mol_type="mRNA"

/db_xref="taxon:9823"

/clone="C0003276_L01"

/tissue_type="ovary"

/clone_lib="CSEORAN19"

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NotI; Single pass sequencing; Normalised library

constructed from pooled ovaries"

Location/Qualifiers

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/db_xref="taxon:9823"

/clone="C0003276_L01"

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/clone_lib="CSEORAN19"

/note="Vector: pbuScript11 (KS+); Site 1: EcorI; Site 2:

NotI; Single pass sequencing; Normalised library

constructed from pooled ovaries"

Location/Qualifiers

1..18

/organism="Sus scrofa"

/mol_type="mRNA"

/db_xref="taxon:9823"

/clone="C0003276_L01"

/tissue_type="ovary"

/clone_lib="CSEORAN19"

/note="Vector: pbuScript11 (KS+); Site 1: EcorI; Site 2:

NotI; Single pass sequencing; Normalised library

constructed from pooled ovaries"

Location/Qualifiers

1..18

/organism="Sus scrofa"

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/db_xref="taxon:9823"

/clone="C0003276_L01"

/tissue_type="ovary"

/clone_lib="CSEORAN19"

/note="Vector: pbuScript11 (KS+); Site 1: EcorI; Site 2:

NotI; Single pass sequencing; Normalised library

constructed from pooled ovaries"

Location/Qualifiers

1..18

/organism="Sus scrofa"

/mol_type="mRNA"

/db_xref="taxon:9823"

/clone="C0003276_L01"

/tissue_type="ovary"

/clone_lib="CSEORAN19"

/note="Vector: pbuScript11 (KS+); Site 1: EcorI; Site 2:

NotI; Single pass sequencing; Normalised library

constructed from pooled ovaries"

Location/Qualifiers

1..18

/organism="Sus scrofa"

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/clone="C0003276_L01"

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/clone_lib="CSEORAN19"

/note="Vector: pbuScript11 (KS+); Site 1: EcorI; Site 2:

NotI; Single pass sequencing; Normalised library

constructed from pooled ovaries"

Location/Qualifiers

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NotI; Single pass sequencing; Normalised library

constructed from pooled ovaries"

Location/Qualifiers

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/clone="C0003276_L01"

/tissue_type="ovary"

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/note="Vector: pbuScript11 (KS+); Site 1: EcorI; Site 2:

NotI; Single pass sequencing; Normalised library

constructed from pooled ovaries"

Location/Qualifiers

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/tissue_type="ovary"

/clone_lib="CSEORAN19"

/note="Vector: pbuScript11 (KS+); Site 1: EcorI; Site 2:

NotI; Single pass sequencing; Normalised library

constructed from pooled ovaries"

Location/Qualifiers

1..18

/organism="Sus scrofa"

/mol_type="mRNA"

/db_xref="taxon:9823"

/clone="C0003276_L01"

/tissue_type="ovary"

/clone_lib="CSEORAN19"

/note="Vector: pbuScript11 (KS+); Site 1: EcorI; Site 2:

NotI; Single pass sequencing; Normalised library

constructed from pooled ovaries"

Location/Qualifiers

1..18

/organism="Sus scrofa"

/mol_type="mRNA"

/db_xref="taxon:9823"

/clone="C0003276_L01"

/tissue_type="ovary"

/clone_lib="CSEORAN19"

/note="Vector: pbuScript11 (KS+); Site 1: EcorI; Site 2:

NotI; Single pass sequencing; Normalised library

constructed from pooled ovaries"

Location/Qualifiers

1..18

/organism="Sus scrofa"

/mol_type="mRNA"

/db_xref="taxon:9823"

/clone="C0003276_L01"

/tissue_type="ovary"

/clone_lib="CSEORAN19"

/note="Vector: pbuScript11 (KS+); Site 1: EcorI; Site 2:

NotI; Single pass sequencing; Normalised library

constructed from pooled ovaries"

Location/Qualifiers

1..18

/organism="Sus scrofa"

/mol_type="mRNA"

/db_xref="taxon:9823"

/clone="C0003276_L01"

/tissue_type="ovary"

/clone_lib="CSEORAN19"

/note="Vector: pbuScript11 (KS+); Site 1: EcorI; Site 2:

NotI; Single pass sequencing; Normalised library

constructed from pooled ovaries"

Location/Qualifiers

1..18

/organism="Sus scrofa"

/mol_type="mRNA"

/db_xref="taxon:9823"

/clone="C0003276_L01"

/tissue_type="ovary"

/clone_lib="CSEORAN19"

/note="Vector: pbuScript11 (KS+); Site 1: EcorI; Site 2:

NotI; Single pass sequencing; Normalised library

constructed from pooled ovaries"

Location/Qualifiers

1..18

/organism="Sus scrofa"

/mol_type="mRNA"

/db_xref="taxon:9823"

/clone="C0003276_L01"

/tissue_type="ovary"

/clone_lib="CSEORAN19"

/note="Vector: pbuScript11 (KS+); Site 1: EcorI; Site 2:

NotI; Single pass sequencing; Normalised library

constructed from pooled ovaries"

Location/Qualifiers

1..18

/organism="Sus scrofa"

/mol_type="mRNA"

/db_xref="taxon:9823"

/clone="C0003276_L01"

/tissue_type="ovary"

/clone_lib="CSEORAN19"

/note="Vector: pbuScript11 (KS+); Site 1: EcorI; Site 2:

NotI; Single pass sequencing; Normalised library

constructed from pooled ovaries"

Location/Qualifiers

1..18

/organism="Sus scrofa"

/mol_type="mRNA"

/db_xref="taxon:9823"

/clone="C0003276_L01"

/tissue_type="ovary"

/clone_lib="CSEORAN19"

/note="Vector: pbuScript11 (KS+); Site 1: EcorI; Site 2:

NotI; Single pass sequencing; Normalised library

constructed from pooled ovaries"

Location/Qualifiers

1..18

/organism="Sus scrofa"

/mol_type="mRNA"

TITLE	Transcriptome of Arabidopsis leaf senescence
JOURNAL	Plant Cell Environ. 27 (5), 521-549 (2004)
COMMENT	Contact: Susheng Gan

FEATURES	Location/Qualifiers
source	1. .19

ORIGIN

Query Match	51.0%	Score 10.2;	DB 6;	Length 19;
Best Local Similarity	80.0%	Pred. No. 2.6e+06;		
Matches 12; Conservative	0;	Mismatches 3;	Indels 0;	Gaps 0

QY 5 CTTCAGGAGCGGC 1
| | | | | | | | | |
Db 19 CGTGAAGGAGCAGC 5

RESULT 4				
AZ637794/c				
LOCUS	AZ637794	20 bp	DNA	linear
DEFINITION	1M0497D20F Mouse 10kb plasmid UUG1M library Mus musculus genomic clone UUG1M0497D20 F, genomic survey sequence.			GSS 13-DEC-2000

TITLE	Mouse whole genome scaffolding with paired end reads from 10kb
JOURNAL	plasmid insert
COMMENT	unpublished (2000)
	Contact: Robert B. Weiss

FEATURES

Source

```

1.. 20
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="MUC61M0497D20"
/sex="Male"
/lab_host="E. coli strain XL10-gold, T1-resistant, F-"
/clone_lib="Mouse 10kb plasmid UNGC1M library"
/notes="Vector: PMD22ny, Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptored DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pMD22 [gi:4732114|gb:AF129072.1], a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptored mouse DNA was annealed to
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."

```

ORIGIN

Query Match	51.0%;	Score 10.2;	DB 8;	Length 20;
Best Local Similarity	80.0%;	Pred. No. 2.6e+06;		
Matches 12;	Conservative 0;	Mismatches 3;	Indels 0;	Gaps 0;

QY 1 GACTCTTGACGAG 1
| | | | | | | |
Db 16 GGCTCTTGAGGAGG 2

RESULT 5	
A2336487/c	
LOCUS	A2336487
DEFINITION	20 bp DNA linear GSS 29-SEP-2000
	1M0066J13 Mouse 10kb plasmid U06C1M library Mus musculus genomic
	clone U06C1M0066J13 R, genomic survey sequence.

TITLE	Mouse whole genome scaffolding with paired end reads from 10Kb
JOURNAL	plasmid inserts
COMMENT	unpublished (2000)
	Contact: Robert B. Weiss
	bioinformatics@trsh.ocrcom.co.uk

FEATURES

source

1. .20

/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC1M0066J13"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/note="Vector: PMD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (<http://www.jax.org/resources/documents/dnares/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PMD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

ORIGIN

Query Match 48.0%; Score 9.6; DB 8; Length 20;
Best Local Similarity 75.0%; Pred. No. 5.1e+06;
Matches 12; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2 ACTCTTCACGAGCG 17
||| ||||| |||
Db 17 ACTGTTCACGCGTGG 2

RESULT 6

AZ410317/c 19 bp DNA linear GSS 03-OCT-2000

LOCUS 1M0182102R Mouse 10kb plasmid UUGC1M library Mus musculus genomic

DEFINITION clone UUGC1M0182102 R, genomic survey sequence.

ACCESSION AZ410317

VERSION AZ410317.1 GI:10534330

KEYWORDS GSS.

ORGANISM Mus musculus (house mouse)

SOURCE Mus musculus

ORGANISM Mus musculus

REFERENCE 1 (bases 1 to 19)
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D., Weiss,R.

AUTHORS

TITLE Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts

JOURNAL Unpublished (2000)

COMMENT Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLIC, UT 84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0182 row: 1 column: 02
Seq primer: CACACAGGAAACAGCTATGACC
Classes: plasmid ends
High quality sequence stop: 19.
Location/Qualifiers

source

1. .19

/organism="Mus musculus"
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/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC1M0182102"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/note="Vector: PMD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (<http://www.jax.org/resources/documents/dnares/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PMD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

ORIGIN

Query Match 47.0%; Score 9.4; DB 8; Length 19;
Best Local Similarity 90.9%; Pred. No. 6.3e+06;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 6 TTGCAGGAGC 16
||||| |||||
Db 16 TTGCAGGAGC 6

RESULT 7

AZ816318 19 bp DNA linear GSS 20-FEB-2001

LOCUS 2M0085E05F Mouse 10kb plasmid UUGC1M library Mus musculus genomic

DEFINITION clone UUGC2M0085E05 F, genomic survey sequence.

ACCESSION AZ816318

VERSION AZ816318.1 GI:12986226

KEYWORDS GSS.

ORGANISM Mus musculus (house mouse)

SOURCE Mus musculus

ORGANISM Mus musculus

REFERENCE 1 (bases 1 to 19)
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D., Weiss,R.

AUTHORS

TITLE Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts

JOURNAL Unpublished (2000)

COMMENT Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLIC, UT 84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0085 row: E column: 05
Seq primer: CGTGTAAACAGCAGCCAGT
Classes: plasmid ends
High quality sequence stop: 19.
Location/Qualifiers

source
1. .19
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUCGCM0085E05"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUCGCM library"
/note="Vector: PMD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (<http://www.jax.org/resources/documents/dnares/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adapted DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (g1473214|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adapted mouse DNA was annealed to adapted vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

ORIGIN

Query Match 47.0%; Score 9.4; DB 8; Length 19;
Best Local Similarity 90.9%; Pred. No. 6.3e+06;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 10 AGGAGCGGCT 20
|||||
2 AGGAGCGGCT 12

Db

RESULT 8
A2798282/c
LOCUS
DEFINITION 20 bp DNA linear GSS 16-FEB-2001
2M0055H05F Mouse 10kb plasmid UUCGCM library Mus musculus genomic
clone UUCGCM0055H05 F, genomic survey sequence.
ACCESSION A2798282
VERSION A2798282.1 GI:12948227
KEYWORDS
SOURCE GSS.
ORGANISM Mus musculus (house mouse)
MUS musculus
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 20)
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A., and Wright, D., Weiss, R.
Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: rdunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0055 row: H column: 05
Seq primer: CGTTGTAAACGACGCGCCAGC
Class: plasmid ends
High quality sequence stop: 20.
Location/Qualifiers

FEATURES

source
1. .20
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUCGCM0055H05"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUCGCM library"
/note="Vector: PMD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (<http://www.jax.org/resources/documents/dnares/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adapted DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (g1473214|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adapted mouse DNA was annealed to adapted vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

ORIGIN

Query Match 47.0%; Score 9.4; DB 8; Length 20;
Best Local Similarity 90.9%; Pred. No. 6.4e+06;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 ACTCTTGACG 12
|||||
16 ACTCTTGACG 6

Db

RESULT 9
A2482658
LOCUS
DEFINITION 19 bp DNA linear GSS 05-OCT-2000
1M0107116R Mouse 10kb plasmid UUCGCM library Mus musculus genomic
clone UUCGCM0307116 R, genomic survey sequence.
ACCESSION A2482658
VERSION A2482658.1 GI:10645919
KEYWORDS
SOURCE GSS.
ORGANISM Mus musculus (house mouse)
MUS musculus
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 19)
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A., and Wright, D., Weiss, R.
Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: rdunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0307 row: L column: 16
Seq primer: CACACAGAAACGCTATGACC
Class: plasmid ends
High quality sequence stop: 19.
Location/Qualifiers

FEATURES

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source
1..19
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUCG1M0307L16"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUC1M library"
/note="Vector: PMD42m; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."
```

ORIGIN

Query Match 45.0%; Score 9; DB 8; Length 19;
Best Local Similarity 70.6%; Pred. No. 9.9e+06;
Matches 12; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 3 CTCTGCAGGAACGGC 19
|||||
3 CTCTGCAGGTTACTGC 19

Db 3 CTCTGCAGGTTACTGC 19

RESULT 10

LOCUS CL661094 19 bp DNA linear GSS 09-JUL-2004

DEFINITION PRI0138d_F10 - PRI0138d.B21 (19) Mixed stage fosmid library of P. pacificus var. California Pristionchus pacificus genomic, genomic survey sequence.

ACCESSION CL661094.1 GI:50147102

VERSION CL661094.1 GI:50147102

KEYWORDS GSS.

SOURCE Pristionchus pacificus

ORGANISM Pristionchus pacificus
Eukaryota; Metazoa; Nematoda; Chromadorea; Diplogasterida; Neodiplogasteridae; Pristionchus.

REFERENCE 1 (bases 1 to 19)
Srinivasan,J., Octo,G.W., Kahlow,U., Geisler,R. and Sommer,R.J. AppADB: an Acedb database for the nematode satellite organism Pristionchus pacificus

AUTHORS Pristionchus pacificus

TITLE Nucleic Acids Res. 32 (1), D421-D422 (2004)

JOURNAL Contact: Sommer RJ

COMMENT Evolutionary Biology
Max-Planck-Institute for Developmental Biology
Spemannstr. 37-39, Tuebingen D-72076, Germany
Tel: 00497071601371
Fax: 00497071601498
Email: ralf.sommer@uebingen.mpg.de
This library was generated at Caltech, Pasadena, USA and end sequenced at Vancouver, Canada.
Seq primer: T7
Class: fosmid ends.

FEATURES

source 1..19
Location/Qualifiers
1..19
/organism="Pristionchus pacificus"
/mol_type="genomic DNA"
/strain="California"

/db_xref="taxon:54126"
/clone_lib="Mixed stage fosmid library of P. pacificus var. California"
/note="Vector: pBpifos-5 Fosmid vector"

ORIGIN

Query Match 45.0%; Score 9; DB 9; Length 19;
Best Local Similarity 70.6%; Pred. No. 9.9e+06;
Matches 12; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 4 TCTTCAGGAACGGCT 20
|||||
1 TCTCGTACCAAGGCT 17

Db 1 TCTCGTACCAAGGCT 17

RESULT 11

LOCUS BX559186 20 bp mRNA linear EST 10-OCT-2003

DEFINITION BX559186 Glossina morsitans morsitans adult infected gut Glossina morsitans morsitans CDNA clone Tse42b02_q1c, mRNA sequence.

ACCESSION BX559186

VERSION BX559186.1 GI:33366480

KEYWORDS EST.

SOURCE Glossina morsitans morsitans

ORGANISM Glossina morsitans morsitans
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Peerygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Hippoboscidae; Glossinidae; Glossina.

REFERENCE 1 (bases 1 to 20)
Lehane,M.J., Aksoy,S., Gibson,M., Keshornou,A., Berrihan,M., Hamilton,J., Soares,M.B., Bonaldo,M.F., Lehane,S. and Hall,N. Adult midgut expressed sequence tags from the tsetse fly Glossina morsitans morsitans and expression analysis of putative immune response genes
Genome Biol. 4 (10), RG3 (2003)

JOURNAL MEDLINE 22881942

PUBMED 14519198

COMMENT Contact: Hall N
Pathogen Sequencing Unit
The Sanger Institute The Wellcome Trust Genome Campus
Hinxton, Camridge, CB10 1SA, UK
Request for clones, please contact: Mike Lehane
Prof. M.J. Lehane
School of Biological Sciences,
University of Wales,
Bangor LL57 2UW
All clones with suffix q1c are reverse primer reads starting at 5' end of the cDNA all plc reads are from the 3' end.

FEATURES

source 1..20
Location/Qualifiers
1..20
/organism="Glossina morsitans morsitans"
/mol_type="mRNA"
/sub_species="morsitans"
/db_xref="taxon:37546"
/clone="Tse42b02_q1c"
/tissue_type="adult infected gut"
/clone_lib="Glossina morsitans morsitans adult infected gut"
/note="country: zimbabwe; EST from adult gut infected with T. brucei"

ORIGIN

Query Match 45.0%; Score 9; DB 5; Length 20;
Best Local Similarity 70.6%; Pred. No. 1e+07;
Matches 12; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 3 CTCTGCAGGAACGGC 19
|||||
3 CTCTAGTAAGAGTGAC 19

Db 3 CTCTAGTAAGAGTGAC 19

RESULT 12

B0587767/c
 LOCUS B0587767 16 bp RNA linear EST 06-DEC-2002
 DEFINITION E0123456-024-010-M01-SP6 MP1Z-ADIS-024-leaf Beta vulgaris cDNA
 clone 024-010-M01-5-PRIME, mRNA sequence.
 ACCESSION B0587767
 VERSION B0587767.1 GI:26117349
 KEYWORDS EST.
 SOURCE Beta vulgaris
 ORGANISM Beta vulgaris
 Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
 Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
 Caryophyllales; Amaranthaceae; Beta.
 REFERENCE 1 (bases 1 to 16)
 AUTHORS Herwig, R., Schulz, B., Weisshaar, B., Hennig, S., Steinfach, M.,
 Drungowski, M., Stahl, D., Wruck, M., Menze, A., O'Brien, J., Lehnach, H.
 and Radloff, U.
 TITLE Construction of a 'unigene' cDNA clone set by oligonucleotide
 fingerprinting allows access to 25 000 potential sugar beet genes
 JOURNAL Plant J 32 (5), 845-857 (2002)
 MEDLINE 22362189
 PUBMED 12472698
 COMMENT Contact: Weisshaar B
 ADIS DNA core facility at MPIZ
 Max-Planck-Institute for Plant Breeding Research
 Carl-von-Linne Weg 10, 50829 Koeln, Germany
 Fax: 00492215062851
 Email: weisshaar@mpliz-koeln.mpg.de
 Insert Length: 16 Std Error: 0.00
 Plate: 10 row: M column: 01
 Seq primer: SP6: CATACGATTAGTGCACCTATAG.
 FEATURES
 source Location/Qualifiers
 1..16
 /organism="Beta vulgaris"
 /mol_type="mRNA"
 /cuffivar="KWS2320 (double haploid, monogerm breeding
 line)"
 /db_xref="GABI:185096"
 /db_xref="taxon:161934"
 /clone="024-010-M01"
 /tissue_type="leaf"
 /lab_host="EMDHI08"
 /clone_lib="MPIZ-ADIS-024-leaf"
 /note="Vector: PCMSPORT6, Site 1: SalI, Site 2: NotI;
 cDNA library from sugar beet, library provided by KWS
 Kleinfanzlebeher Saatnucht AG Einbeck, Germany, contact:
 b.schulz@kws.de; cloning sites SalI-NotI, primer sites and
 orientation:
 SP6-Sali-CCACGCGCTCG-5prime-cDNA-polyA-CC-NotI-T7. Note:
 Sequencing granted in the context of the GABI-BEET
 project, local PI: Dr. Katharina Schneider, coordinator:
 Prof. Christian Jung; Sequence submission managed by
 RZPD/GABI-Primary database: http://gabi.rzpd.de"

RESULT 13
 AZ481008 19 bp DNA linear GSS 04-OCT-2000
 LOCUS AZ481008
 DEFINITION 1M0302N15R Mouse 10kb plasmid UUGC1M library Mus musculus genomic
 clone UUGC1M0302N15 R, genomic survey sequence.
 ACCESSION AZ481008
 VERSION AZ481008.1 GI:10641989
 KEYWORDS GSS.
 SOURCE Mus musculus (house mouse)
 ORGANISM Mus musculus

Query Match 44.0%; Score 8.8; DB 5; Length 16;
 Best Local Similarity 83.3%; Pred. No. 1.2e+07;
 Matches 10; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 6 TTGACGAGGCG 17
 DB 16 TTGACGAGGAGG 5

RESULT 14
 AZ959942 19 bp DNA linear GSS 27-APR-2001
 LOCUS AZ959942/c
 DEFINITION 2M0227L13R Mouse 10kb plasmid UUGC2M library Mus musculus genomic
 clone UUGC2M0227L13 R, genomic survey sequence.
 ACCESSION AZ959942
 VERSION AZ959942.1 GI:13831169
 KEYWORDS GSS.
 SOURCE Mus musculus (house mouse)
 ORGANISM Mus musculus

Query Match 44.0%; Score 8.8; DB 8; Length 19;
 Best Local Similarity 83.3%; Pred. No. 1.2e+07;
 Matches 10; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 9 CAGGAAGCGCT 20
 DB 18 CAGGAAGCGACT 7

ORIGIN
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1 (bases 1 to 19)
 AUTHORS Dunn, D., Aoyagi, A., Barber, M., Beccorn, T., Duval, B., Hamil, C.,
 Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,
 Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von
 Niederhausern, A. and Wright, D., Weis, R.
 TITLE Mouse whole genome scaffolding with paired end reads from 10kb
 plasmid inserts
 JOURNAL Unpublished (2000)
 COMMENT Contact: Robert B. Weiss
 University of Utah Genome Center
 University of Utah
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
 84112, USA
 Tel: 801 585 5606
 Fax: 801 585 7177
 Email: ddunn@genetics.utah.edu
 Insert Length: 10000 Std Error: 0.00
 Plate: 0302 row: N column: 15
 Seq primer: CACACAGGAACGACTATGACC
 Class: plasmid ends
 High quality sequence step: 19.
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 /mol_type="genomic DNA"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone="UUGC1M0302N15"
 /sex="Male"
 /lab_host="R. Coli strain XL10-Gold, T1-resistant, F-"
 /clone_lib="Mouse 10kb plasmid UUGC1M library"
 /note="Vector: PWD42nv; Purified genomic DNA from M.
 musculus C57BL/6J (male) was obtained from the Jackson
 Laboratory Mouse DNA Resource
 (http://www.jax.org/resources/documents/dnares/). The DNA
 was hydrodynamically sheared by repeated passage through a
 0.005 inch orifice at constant velocity. The sheared DNA
 was blunt end-repaired with T4 DNA polymerase and T4
 polynucleotide kinase. Adaptor oligonucleotides were
 ligated to the blunt ends in high molar excess. The
 adaptor DNA was purified and size-selected for a 9.5 to
 10.5 kb range using preparative agarose gel
 electrophoresis. Vector DNA was prepared from a derivative
 of PWD42 (g14732114|9b|AF129072.1), a copy-number
 inducible derivative of plasmid R1. The vector was ligated
 with adaptors complementary to the insert adaptors and
 purified. The sheared, adaptor mouse DNA was annealed to
 adaptor vector DNA, and transformed into
 chemically-competent E. coli XL10-Gold (Stratagene) cells
 and selected for ampicillin resistance."

REFERENCE
AUTHORS
1 (bases 1 to 19)
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenan,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tinney,A., von Niederhausern,A. and Wright,D., Weiss,R.
Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts

JOURNAL
COMMENT
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0227 row: L column: 13
Seq primer: CACACGAGAAACGCTATGACC
Class: plasmid ends
High quality sequence stop: 19.
Location/Qualifiers
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/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UTGCM2027L13"
/sex="Female"
/lab_host="E. coli strain XL10-Gold, T1-resistant, F-"
/clone_lib="Mouse 10kb plasmid library"
/note="Vector: PMD42nv; Purified genomic DNA from M. musculus C57BL/6J (female) was obtained from the Jackson Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PMD42 (GI:4732114|gb|AF139072.1), a copy-number inducible derivative of plasmid RI. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

ORIGIN
Query Match 44.0%; Score 8.8; DB 8; Length 19;
Best Local Similarity 83.3%; Pred. No. 1.2e+07;
Matches 10; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 4 TCTTCAGAG 15
| | | | |
13 TATTCAGAG 2

Db

RESULT 15
AJ599745 20 bp DNA linear GSS 15-JAN-2004
LOCUS AJ599745/c
DEFINITION Arabidopsis thaliana T-DNA flanking sequence, left border, clone 492609, genomic survey sequence.
ACCESSION AJ599745
VERSION AJ599745.1 GI:37949373
KEYWORDS GSS; left border; T-DNA flanking sequence.
SOURCE Arabidopsis thaliana (thale cress)
ORGANISM Arabidopsis thaliana

REFERENCE
AUTHORS
1
Brunaud,V., Balzerque,S., Dubreucq,B., Aubourg,S., Samson,F., Chauvin,S., Bechtold,N., Cruaud,C., Dekose,R., Pelletier,G., Lepointec,L., Caboche,M. and Lecharny,A.
T-DNA integration into the Arabidopsis genome depends on sequences of pre-insertion sites
EMBO Rep. 3 (12), 1152-1157 (2002)

JOURNAL
MEDLINE 22363535
PUBMED 12446565
REFERENCE 2 (bases 1 to 20)
AUTHORS Balzerque,S.
TITLE Direct Subinsertion
JOURNAL Submitted (23-OCT-2003) Balzerque S., UMRGV, INRA/CNRS, 2 rue Gaston Cremieux, 91057 Evry cedex, FRANCE
PCR was performed on DNA from transformants of Arabidopsis thaliana plants from INRA (Versailles). The DNA fragment(s) resulting from the PCR were directly sequenced from the left or the right border to determine the genomic sequence flanking the insertion. T-DNA derived sequences were removed. Information to order the corresponding mutant line and a link to a database providing a graphical display of the insertion site are available at <http://dbsgap.versailles.inra.fr/publiclines/>. This sequence has been generated in the framework of the French plant genomics program 'Genoplante' (<http://www.genoplante.com> and <http://genoplante.info.infobio.gen.fr>).
Location/Qualifiers
1..20
/organism="Arabidopsis thaliana"
/mol_type="genomic DNA"
/cultivar="Massilwek1ja"
/db_xref="taxon:3702"
/clone="492609"
/clone_lib="Arabidopsis thaliana T-DNA insertion lines"
/note="T-DNA flanking sequence left border"

FEATURES
source
misc_feature
left border"

ORIGIN
Query Match 43.0%; Score 8.6; DB 9; Length 20;
Best Local Similarity 73.3%; Pred. No. 1.6e+07;
Matches 11; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2 ACTCTTCAGAGC 16
| | | | |
17 ACTGTTCCAGAGC 3

Db

RESULT 16
AJ587896 16 bp DNA linear GSS 15-JAN-2004
LOCUS AJ587896
DEFINITION Arabidopsis thaliana T-DNA flanking sequence, left border, clone 337H10, genomic survey sequence.
ACCESSION AJ587896
VERSION AJ587896.1 GI:37937520
KEYWORDS GSS; left border; T-DNA flanking sequence.
SOURCE Arabidopsis thaliana (thale cress)
ORGANISM Arabidopsis thaliana
Arabidopsis thaliana
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids; eurosids II; Brassicales; Brassicaceae; Arabidopsis.

REFERENCE
AUTHORS
1
Brunaud,V., Balzerque,S., Dubreucq,B., Aubourg,S., Samson,F., Chauvin,S., Bechtold,N., Cruaud,C., Dekose,R., Pelletier,G., Lepointec,L., Caboche,M. and Lecharny,A.
T-DNA integration into the Arabidopsis genome depends on sequences of pre-insertion sites
EMBO Rep. 3 (12), 1152-1157 (2002)

JOURNAL
MEDLINE 22363535
PUBMED 12446565
REFERENCE 2 (bases 1 to 16)

AUTHORS Balzerque, S.
TITLE Direct Submission
JOURNAL Submitted (23-OCT-2003) Balzerque S., URGV, INRA/CNRS, 2 rue
Gaston Cremieux, 91057 Evry cedex, FRANCE

COMMENT PCR was performed on DNA from transformants of *Arabidopsis thaliana* plants from INRA (Versailles). The DNA fragment(s) resulting from the PCR were directly sequenced from the left or the right border to determine the genomic sequence flanking the insertion. T-DNA derived sequences were removed. Information to order the corresponding mutant line and a link to a database providing a graphical display of the insertion site are available at <http://dbsgap.versailles.inra.fr/publiclines/>. This sequence has been generated in the framework of the French plant genomics program 'Genoplante' (<http://www.genoplante.com> and <http://genoplante-info.infodivgen.fr>).

FEATURES
source 1.16
/organism="Arabidopsis thaliana"
/mol_type="genomic DNA"
/cultivar="Wassilewskija"
/db_xref="taxon:3702"
/clone="337H10"
/clone_1ib="Arabidopsis thaliana T-DNA insertion lines"
/note="T-DNA flanking sequence
left border"

ORIGIN

Query Match 42.0%; Score 8.4; DB 9; Length 16;
Best Local Similarity 90.0%; Pred. No. 1.9e+07;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 4 TCTTGCAGGA 13
|||||||
Db 3 TCTTGCAGTA 12

RESULT 17
AZ397615/c 19 bp DNA linear GSS 03-OCT-2000
LOCUS IM0162M07R Mouse 10kb plasmid UGCG1M library Mus musculus genomic
DEFINITION clone UGCG1M0162M07 R, genomic survey sequence.

ACCESSION AZ397615
VERSION AZ397615.1 GI:10512687
KEYWORDS GSS.

SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 19)

AUTHORS Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
Islam, H., Longacre, S., Mahmud, M., Meenen, E., Pedersen, T.,
Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von
Niederhuesen, A. and Wright, D., Weis, R.
TITLE Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
JOURNAL Unpublished (2000)

COMMENT Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA

Tel: 801 585 5606
Fax: 801 585 7177

Email: ddunn@genetics.utah.edu
Insert length: 10000 Std Error: 0.00
Plate: 0162 row: M column: 07

Seq primer: CACACAGAAACAGCTATGACC
Class: plasmid ends
High quality sequence stop: 19.
Location/Qualifiers
1.19
/organism="Mus musculus"

ORIGIN

Query Match 42.0%; Score 8.4; DB 8; Length 19;
Best Local Similarity 90.0%; Pred. No. 2e+07;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 6 TTGCAGGAG 15
|||||||
Db 11 TTACAGGAG 2

RESULT 18
AZ413661/c 19 bp DNA linear GSS 03-OCT-2000
LOCUS IM0197107R Mouse 10kb plasmid UGCG1M library Mus musculus genomic
DEFINITION clone UGCG1M0197107 R, genomic survey sequence.

ACCESSION AZ413661
VERSION AZ413661.1 GI:10537590
KEYWORDS GSS.

SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 19)

AUTHORS Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
Islam, H., Longacre, S., Mahmud, M., Meenen, E., Pedersen, T.,
Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von
Niederhuesen, A. and Wright, D., Weis, R.
TITLE Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
JOURNAL Unpublished (2000)

COMMENT Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA

Tel: 801 585 5606
Fax: 801 585 7177

Email: ddunn@genetics.utah.edu
Insert length: 10000 Std Error: 0.00
Plate: 0197 row: I column: 07

Seq primer: CACACAGAAACAGCTATGACC
Class: plasmid ends
High quality sequence stop: 19.
Location/Qualifiers
1.19
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/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUC1M0197107"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUC1M library"
/note="Vector: PMD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PMD42 (g14732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

ORIGIN

Query Match 42.0%; Score 8.4; DB 8; Length 19;
Best Local Similarity 90.0%; Pred. No. 2e+07; 1; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 GACTCTGCA 10
|||
Db 10 GACCTTGCA 1

RESULT 19 19 bp DNA linear GSS 16-FEB-2001
A2759607
LOCUS 1M0552123F Mouse 10kb plasmid UUC1M library Mus musculus genomic
DEFINITION Clone UUC1M0552123 F, genomic survey sequence.
ACCESSION A2759607
VERSION A2759607.1 GI:12866570
KEYWORDS GSS.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

REFERENCE 1 (bases 1 to 19)
AUTHORS Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamill,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,
Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von
Niederhausern,A. and Wright,D.,Weiss,R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
Unpublished (2000)

JOURNAL COMMENT
Contact: Robert B. Weiss
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0552 row: I column: 23
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Class: plasmid ends
High quality sequence stop: 19.
Location/Qualifiers
1..19
/organism="Mus musculus"

/mol_type="genomic DNA"
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/db_xref="taxon:10090"
/clone="UUC1M0552123"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUC1M library"
/note="Vector: PMD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PMD42 (g14732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

ORIGIN

Query Match 42.0%; Score 8.4; DB 8; Length 19;
Best Local Similarity 90.0%; Pred. No. 2e+07; 1; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 7 TGACGAGAC 16
|||
Db 9 TGACGAGATC 18

RESULT 20 20 bp DNA linear GSS 13-DEC-2000
A2597307
LOCUS 1M0410N24R Mouse 10kb plasmid UUC1M library Mus musculus genomic
DEFINITION Clone UUC1M0410N24 R, genomic survey sequence.
ACCESSION A2597307
VERSION A2597307.1 GI:11719413
KEYWORDS GSS.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

REFERENCE 1 (bases 1 to 20)
AUTHORS Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamill,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,
Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von
Niederhausern,A. and Wright,D.,Weiss,R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
Unpublished (2000)

JOURNAL COMMENT
Contact: Robert B. Weiss
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0410 row: N column: 24
Seq primer: CACACAGAAACGCTATGACC
Class: plasmid ends
High quality sequence stop: 20.
Location/Qualifiers
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/organism="Mus musculus"

FEATURES
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1..19
/organism="Mus musculus"

FEATURES
source
1..20
/organism="Mus musculus"

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/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUCG1M0410N24"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/clone_1lb="Mouse 10kb plasmid UGCG1M library"
/notes="Vector: PMD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (GI|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."
```

ORIGIN

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Query Match      42.0%; Score 8.4; DB 8; Length 20;
Best Local Similarity 90.0%; Pred. No. 2e+07;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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OY      3 CTCTTGCAGC 12
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        7 CTCTTGCATG 16
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RESULT 21
A2827842
LOCUS 20 bp DNA linear GSS 20-FEB-2001
DEFINITION clone UGCG2M0104F03 R, genomic survey sequence.

ACCESSION A2827842
VERSION A2827842.1 GI:12397750
KEYWORDS GSS.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus

REFERENCE 1 (bases 1 to 20)
AUTHORS Dunn,D., Aoyagi,A., Barber,M., Beacom,T., Duval,B., Hamil,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,
Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von
Niederhausern,A. and Wright,D., Weiss,R.

TITLE Mouse whole genome scaffolding with paired end reads from 10kb
JOURNAL Plasmid inserts
COMMENT Unpublished (2000)
Contact: Robert B. Weiss
University of Utah
University of Utah Genome Center
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: dunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0104 row: F column: 03
Seq primer: CACACAGAGAAACAGCTATGACC
Class: plasmid ends
High quality sequence stop: 20.
Location/Qualifiers
1..20
/organism="Mus musculus"

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/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUCG2M0104F03"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/clone_1lb="Mouse 10kb plasmid UGCG1M library"
/notes="Vector: PMD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (GI|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."
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ORIGIN

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Query Match      42.0%; Score 8.4; DB 8; Length 20;
Best Local Similarity 66.7%; Pred. No. 2e+07;
Matches 12; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
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OY      3 CTCTTGCAGGAGCGGCT 20
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        3 CTGTGGCAGAGAAACATCT 20
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RESULT 22
AG189193/c
LOCUS 20 bp DNA linear GSS 06-MAR-2004
DEFINITION Pan troglodytes DNA, clone: RP43-063J03.T7, genomic survey sequence.

ACCESSION AG189193
VERSION AG189193.1 GI:45221369
KEYWORDS GSS.
SOURCE Pan troglodytes (chimpanzee)
ORGANISM Pan troglodytes

REFERENCE 1 (bases 1 to 20)
AUTHORS Park,H., Kim,Y., Kim,S., Han,Y., Woo,T., Park,K., Eun,C.J.,
Hoon,S.T., Chu,M., Kim,H., Joo,S., Kim,C., Song,W. and Yoo,H.

TITLE BAC end sequences of library RP-43
JOURNAL Unpublished
COMMENT Submitted (07-JAN-2002) Hong-Seog Park, Korea Research Institute of
Bioscience and Biotechnology (KIRIB), Genome Research Center (GRC);
52, Oun-dong, Yuseong-gu, Daejeon 305-333, Korea
Tel:82-42-866-7181, Fax:82-42-860-4403
E-mail:redstone@mail.kribb.re.kr, url:http://pns.grc.kribb.re.kr/
Clones are derived from the chimpanzee BAC library RP-43 This BAC
end was generated during the R&D process and may have higher chance
of clone tracking errors.
PRIMERS
Sequencing: T7
LIBRARY
Vector : pBAC3.6
R.Site 1 : EcoRI
R.Site 2 : EcoRI.
Location/Qualifiers

FEATURES
source

FEATURES

```

source
1..20
/organism="Pan troglodytes"
/mol_type="genomic DNA"
/db_xref="taxon:9598"
/clone="RP43-063J03.77"
/sex="male"
/cell_type="lymphocytes"
/clone_lib="RP-43 Chimpanzee Male BAC library"

ORIGIN
Query Match      42.0%; Score 8.4; DB 9; Length 20;
Best Local Similarity 90.0%; Pred. No. 2e+07;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 6 TTGCAGGAG 15
    |||||
Db 10 TTGCAGGAG 1

RESULT 23
BO789829      13 bp      mRNA      linear      EST 30-JUL-2002
LOCUS      hage002aH08 Heterobasidion annosum - Scots pine infection stage
DEFINITION (HAGE) subtraction cDNA library Pinus sylvestris/Heterobasidion
amnosum mixed EST library cDNA clone hage002aH08, mRNA sequence.
ACCESSION      BO789829.1 GI:22004791
VERSION      BO789829
KEYWORDS      EST.
SOURCE      Pinus sylvestris/Heterobasidion annosum mixed EST library
ORGANISM      Pinus sylvestris/Heterobasidion annosum mixed EST library
REFERENCE      1 (bases 1 to 13)
AUTHORS      Asiegbu,F.O., Nahalkova,J. and Dean,R.A.
TITLE      Selected expressed sequence tags of cDNA clones from the
interaction of the root rot fungus (Heterobasidion annosum) with
seedling roots of Scots pine (Pinus sylvestris)

JOURNAL
COMMENT      Unpublished (2001)
CONTACT      Dept. of Forest Mycology & Pathology
              Swedish university of Agriculture, Box 7026,S-750 07, Uppsala,
              Sweden
              Tel: +46 18 67 15 98
              Fax: +46 18 30 92 45
              Email: Fred.Asiegbu@mykopac.slu.se
              Seq primer: T7 primer.

FEATURES
source
1..13
/location/Qualifiers
/organism="Pinus sylvestris/Heterobasidion annosum mixed
EST library"
/mol_type="mRNA"
/db_xref="taxon:169015"
/clone="hage002aH08"
/dev_stage="Seedling roots of scots pine were infected for
6 days with H. annosum"
/clone_lib="Heterobasidion annosum - Scots pine infection
stage (HAGE) subtraction cDNA library"
/note="Vector: pT-Adv; Site 1: EcoRI; The subtractive
hybridization cDNA library was constructed from scots pine
roots infected for 6-days with mycelia of Heterobasidion
annosum (fps)."

ORIGIN
Query Match      41.0%; Score 8.2; DB 5; Length 13;
Best Local Similarity 76.9%; Pred. No. 2.3e+07;
Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 3 CTCTTGAGGAG 15
    |||||
Db 1 CTCTTACAGAG 13

RESULT 24
AI042533

```

```

LOCUS      AI042533      18 bp      mRNA      linear      EST 30-JUN-1998
DEFINITION      oy06e03.x1 Soares senescent fibroblasts NBHSF Homo sapiens cDNA
clone IMAGE:1665052 3' similar to TR:Q15662 Q15662
TRANSCRIPTION-RELATED PROTEIN ;, mRNA sequence.
ACCESSION      AI042533.1 GI:3281727
VERSION      AI042533
KEYWORDS      EST.
SOURCE      Homo sapiens (human)
ORGANISM      Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE      1 (bases 1 to 18)
AUTHORS      NCI-CCAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE      National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
JOURNAL      Unpublished (1997)
COMMENT      Contact: Robert Strausberg, Ph.D.
              Email: cga@db-remail.nih.gov
              This clone is available royalty-free through LIND ; contact the
              IMAGE Consortium (info@image.lind.gov) for further information.
              Trace considered overall poor quality
              Seq primer: -40m13 fwd. ET from Amerham
              High quality sequence stop: 1.

FEATURES
source
1..18
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:1665052"
/tissue_type="senescent fibroblast"
/lab_host="DH10B (ampicillin resistant)"
/clone_lib="Soares senescent fibroblasts NBHSF"
/note="Vector: pT7T3D (Pharmacia) with a modified
polylinker V.TYPE: phagemid; Site 1: Not I; Site 2: Eco
RI; 1st strand cDNA was primed with a Not I - oligo(dT)
primer 15,
TGTTACCAATCTGAAAGTGGAGCGCCGCAATTTTCTTTTCTTTT 3',
double-stranded cDNA was size selected, ligated to Eco RI
adapters (Pharmacia), digested with Not I and cloned into
the Not I and Eco RI sites of a modified pT7T3 vector
(Pharmacia). Library went through one round of
normalization to a Cot = 5. Library constructed by Bento
Soares and M.Fatima Donald."

ORIGIN
Query Match      41.0%; Score 8.2; DB 1; Length 18;
Best Local Similarity 76.9%; Pred. No. 2.4e+07;
Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GACTCTTGAGGA 13
    |||||
Db 6 GACTCTGAGAGA 18

RESULT 25
C00629      18 bp      mRNA      linear      EST 31-DEC-2002
LOCUS      HMG50008172 Human adult (K.Okubo) Homo sapiens cDNA, mRNA
DEFINITION      sequence.
ACCESSION      C00629.1 GI:1432859
VERSION      C00629
KEYWORDS      EST.
SOURCE      Homo sapiens (human)
ORGANISM      Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE      1 (bases 1 to 18)
AUTHORS      Okubo,K.
TITLE      BodyMap: human gene expression database
JOURNAL      Unpublished (1995)
COMMENT      Contact: Okubo,K.
              Institute for Molecular and Cellular Biol
              Osaka University

```

1-3, Yamada-oka, Suita, Osaka Pref. 565, Japan
Tel: 06-877-5111(ex.3315)
Email: kousaku@imb.osaka-u.ac.jp
We are not submitting the same cDNA sequence redundantly to DDBJ since 1993. For the abundance information of clones with this sequence in this library and as well as in other 3'-directed libraries, see 'http://www.imb.osaka-u.ac.jp/bodymap'. The sequences of the clones represented by this GS sequences is also found there.

FEATURES

source

1.18
Location/Qualifiers
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/dev_stage="adult"
/clone_lib="Human adult (K.Okubo)"
/note="One or more human adult tissue"

ORIGIN

Query Match 41.0%; Score 8.2; DB 6; Length 18;
Best Local Similarity 76.9%; Pred. No. 2.4e+07;
Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 4 TCTTCAGCAGC 16
|||||
Db 3 TCTTGCTGAAC 15

RESULT 26
LOCUS CL661466 18 bp DNA linear GSS 09-JUL-2004
DEFINITION PRI0139d_G02 - PRI0139d.B21 (18) Mixed stage foemid library of P. pacificus var. California Pristionchus pacificus genomic, genomic survey sequence.

ACCESSION CL661466 GI:50147979
VERSION CL661466.1
KEYWORDS Pristionchus pacificus
SOURCE Pristionchus pacificus
ORGANISM Pristionchus pacificus
Eukaryota; Metazoa; Nematoda; Chromadorea; Diplogasterida; Neodiplogasteridae; Pristionchus.

REFERENCE 1 (bases 1 to 18)
AUTHORS Srinivasan,J., Otto,G.W., Kahlow,U., Geisler,R. and Sommer,R.J.
TITLE AppaDB: an Acedb database for the nematode satellite organism Pristionchus pacificus
JOURNAL Nucleic Acids Res. 32 (1), D421-D422 (2004)
COMMENT Contact: Sommer RJ
Evolutionary Biology
Max-Planck-Institute for Developmental Biology
Spemannstr. 37-39, Tuebingen D-72076, Germany
Tel: 00497071601371
Fax: 00497071601498
Email: ralf.sommer@tuebingen.mpg.de
This library was generated at Caltech, Pasadena, USA and end sequenced at Vancouver, Canada.
Seq primer: T7
Class: fosmid ends.
Location/Qualifiers

FEATURES

source

1.18
Location/Qualifiers
/organism="Pristionchus pacificus"
/mol_type="genomic DNA"
/strain="California"
/db_xref="taxon:54126"
/clone_lib="Mixed stage foemid library of P. pacificus var. California"
/note="Vector: pBf105-5 Fosmid vector"

ORIGIN

Query Match 41.0%; Score 8.2; DB 9; Length 18;
Best Local Similarity 76.9%; Pred. No. 2.4e+07;
Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GACTCTTGACGA 13

Db |||||
2 GACTCTTGCGA 14

RESULT 27
LOCUS AJ666428 19 bp mRNA linear EST 28-JUN-2004
DEFINITION AJ666428 CSEQRAN09 Sus scrofa cDNA clone C000003_N10, mRNA sequence.

ACCESSION AJ666428 GI:49350879
VERSION AJ666428.1
KEYWORDS EST.
SOURCE Sus scrofa (pig)
ORGANISM Sus scrofa

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
AUTHORS Anderson,S.I., Finlayson,H.A. and Archibald,A.L.
TITLE 1 (bases 1 to 19)
JOURNAL Development of cDNA and EST resources for studying reproduction and embryo development in pigs and cattle
COMMENT Unpublished (2004)

CONTACT: Anderson SI
Genomics and Bioinformatics
Roslin Institute
Roslin, Midlothian, EH25 9PS, UNITED KINGDOM
Single pass sequencing. Bases called and trimmed with phred V0.020425.c. Vector identified by cross-match with the -m10score 20 and -mismatch 12 options. Vector: BluescriptII(KS+) R. Site 1: EcORI R. Site 2: NotI Description: Normalised library constructed from pooled tissue from day 30 placentas. Clones available from UK Centre for Functional Genomics in Farm Animals, Roslin Institute, Roslin, Midlothian, UK, EH25 9PS, www.arkgenomics.org.

FEATURES

source

1.19
Location/Qualifiers
/organism="Sus scrofa"
/mol_type="mRNA"
/db_xref="taxon:9603"
/clone="C000003_N10"
/tissue_type="placenta"
/clone_lib="CSEQRAN09"
/note="Vector: pBluescriptII(KS+); Site 1: EcORI; Site 2: NotI; Single pass sequencing. Normalised library constructed from pooled tissue from day 30 placentas."

ORIGIN

Query Match 41.0%; Score 8.2; DB 1; Length 19;
Best Local Similarity 76.9%; Pred. No. 2.4e+07;
Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 8 GCAGGAGCGCCT 20
|||||
Db 4 GCTCGAGCGCGCT 16

RESULT 28
LOCUS B0587387 19 bp mRNA linear EST 06-DEC-2002
DEFINITION S014305-024-010-H05-SP6 MP12-ADIS-024-leaf Beta vulgaris cDNA clone 024-010-H05 5-PRIME, mRNA sequence.

ACCESSION B0587387 GI:26116969
VERSION B0587387.1
KEYWORDS EST.
SOURCE Beta vulgaris
ORGANISM Beta vulgaris

Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Caryophyllales; Amaranthaceae; Beta.

REFERENCE 1 (bases 1 to 19)
AUTHORS Herwig,R., Schulz,B., Weishaar,B., Hennig,S., Steinfath,M., Drungowski,M., Stahl,D., Wruck,W., Menze,A., O'Brien,D., Lehnach,H. and Radelof,M.
TITLE Construction of a 'unigene' cDNA clone set by oligonucleotide fingerprinting allows access to 25 000 potential sugar beet genes

JOURNAL Plant J. 32 (5), 845-857 (2002)
 MEDLINE 22362189
 PUBMED 12472698
 COMMENT Contact: Weisenhaar B
 ADIS DNA core facility at MPiZ
 Max-Planck-Institute for Plant Breeding Research
 Carl-von-Linne Weg 10, 50829 Koeln, Germany
 Fax: 00492215062851
 Email: weishaar@pi-z-koeln.mpg.de
 Insert Length: 19 Std Error: 0.00
 Plate: 10 row: H column: 05
 Seg primer: SP6; CATACGATTATGCTGACACTATAG.
 Location/Qualifiers

FEATURES

source

```
1..19
/organism="Beta vulgaris"
/mol_type="rRNA"
/cultivar="RWS2320 (double haploid, monogerm breeding
line)"
/db_xref="GABI:185481"
/db_xref="taxon:161934"
/clone="024-010-H05"
/issue_type="leaf"
/lab_host="EMDH10B"
/clone_1ib="MPiZ-ADIS-024-leaf"
/notes="Vector: PCWVSP076; Site 1: SalI; Site 2: NotI;
cDNA library from sugar beet, library provided by KMS
Kleinwanzlebener Saatgut AG Binbeck, Germany, contact:
b.schulz@kws.de; cloning sites SalI-NotI, primer sites and
orientation:
SP6-SalI-CCACGCGTCGCG-5prime-cDNA-polyA-CC-NotI-77; Note:
Sequencing granted in the context of the GABI-Beet
project, local PI: Dr. Katharina Schneider, coordinator:
Prof. Christian Jung; Sequence submission managed by
RZPD/GABI-Primary database: http://gabi.rzpd.de"
```

ORIGIN

Query Match 41.0%; Score 8.2; DB 5; Length 19;
 Best Local Similarity 76.9%; Pred. No. 2.4e+07;
 Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 3 CTTCTTGACGAG 15
 |||||
 Db 6 CTCTGCGCCGCAAG 18

RESULT 29
 A2363824 19 bp DNA linear GSS 02-OCT-2000
 LOCUS 1M0109P06R Mouse 10kb plasmid UGCIIM library Mus musculus genomic
 DEFINITION clone UGCIIM0109P06 R, genomic survey sequence.
 ACCESSION A2363824
 VERSION A2363824.1 GI:10477524
 KEYWORDS GSS.
 SOURCE Mus musculus (house mouse)
 ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1 (bases 1 to 19)
 Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamill, C.,
 Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,
 Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von
 Niederhausern, A. and Wright, D., Weis, R.
 Mouse whole genome scaffolding with paired end reads from 10kb
 plasmid inserts
 Unpublished (2000)
 Contact: Robert B. Weiss
 University of Utah Genome Center
 University of Utah
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLIC, UT
 84112, USA
 Tel: 801 585 5606
 Fax: 801 585 7177
 Email: ddunn@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00
 Plate: 0109 row: P column: 06
 Seg primer: CACACGAGAAACAGCTATGACC
 Class: plasmid ends
 High quality sequence stop: 19.
 Location/Qualifiers

FEATURES

source

```
1..19
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UGCIIM0109P06"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/clone_1ib="Mouse 10kb plasmid UGCIIM library"
/notes="Vector: PMD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adapted DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of PMD42 (g14732114[gb|AF129072.1]), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adapted mouse DNA was annealed to
adapted vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."
```

ORIGIN

Query Match 41.0%; Score 8.2; DB 8; Length 19;
 Best Local Similarity 76.9%; Pred. No. 2.4e+07;
 Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 5 CTTGACGAGAGCG 17
 |||||
 Db 1 CTGACAGCAAGTG 13

RESULT 30
 A2422762 19 bp DNA linear GSS 03-OCT-2000
 LOCUS 1M0201P12R Mouse 10kb plasmid UGCIIM library Mus musculus genomic
 DEFINITION clone UGCIIM0201P12 R, genomic survey sequence.
 ACCESSION A2422762
 VERSION A2422762.1 GI:10546871
 KEYWORDS GSS.
 SOURCE Mus musculus (house mouse)
 ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1 (bases 1 to 19)
 Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamill, C.,
 Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,
 Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von
 Niederhausern, A. and Wright, D., Weis, R.
 Mouse whole genome scaffolding with paired end reads from 10kb
 plasmid inserts
 Unpublished (2000)
 Contact: Robert B. Weiss
 University of Utah Genome Center
 University of Utah
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLIC, UT
 84112, USA
 Tel: 801 585 5606
 Fax: 801 585 7177
 Email: ddunn@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00
 Plate: 0201 row: P column: 12
 Seq primer: CACACAGGAACAGCTATGACC
 Class: plasmid ends
 High quality sequence stop: 19.
 Location/Qualifiers

FEATURES

Source

1. 19

/organism="Mus musculus"
 /mol_type="genomic DNA"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone="UUCGCM0201P12"
 /sex="Male"
 /lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
 /clone_lib="Mouse 10kb plasmid UUCGCM library"
 /note="Vector: PWD42nv, Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource
 (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adapted DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (g1|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adapted mouse DNA was annealed to adapted vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

ORIGIN

Query Match 41.0%; Score 8.2; DB 8; Length 19;
 Best Local Similarity 76.9%; Pred. No. 2.4e+07;
 Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 6 TTGCAGGAGCGC 18
 Db 19 TTGCAGGAGCGC 7

RESULT 31

AZ509071

LOCUS 19 bp DNA linear GSS 05-OCT-2000
 DEFINITION IM0351A21R Mouse 10kb plasmid UUCGCM library Mus musculus genomic
 clone UUCGCM0351A21 R, genomic survey sequence.

ACCESSION AZ509071

VERSION A2509071.1 GI:10690387

KEYWORDS GSS.

SOURCE Mus musculus (house mouse)

ORGANISM Mus musculus

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1 (bases 1 to 19)

AUTHORS Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
 Irlam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,
 Rellly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von
 Niederhausen, A. and Wright, D., Weis, R.

REFERENCE Mouse whole genome scaffolding with paired end reads from 10kb
 plasmid inserts
 unpublished (2000)

AUTHORS Contact: Robert B. Weis

REFERENCE University of Utah Genome Center

JOURNAL Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
 84112, USA

COMMENT Tel: 801 585 5606
 Fax: 801 585 7177
 Email: ddunn@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00
 Plate: 0351 row: A column: 21
 Seq primer: CACACAGGAACAGCTATGACC
 Class: plasmid ends
 High quality sequence stop: 19.
 Location/Qualifiers

FEATURES

Source

1. 19

/organism="Mus musculus"
 /mol_type="genomic DNA"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone="UUCGCM0351A21"
 /sex="Male"
 /lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
 /clone_lib="Mouse 10kb plasmid UUCGCM library"
 /note="Vector: PWD42nv, Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource
 (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adapted DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (g1|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adapted mouse DNA was annealed to adapted vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

ORIGIN

Query Match 41.0%; Score 8.2; DB 8; Length 19;
 Best Local Similarity 76.9%; Pred. No. 2.4e+07;
 Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 7 TGCAGGAGCGC 19
 Db 1 TGCAGGAGCGC 13

RESULT 32

AZ626779

LOCUS 19 bp DNA linear GSS 13-DEC-2000
 DEFINITION IM0467A14F Mouse 10kb plasmid UUCGCM library Mus musculus genomic
 clone UUCGCM0467A14 F, genomic survey sequence.

ACCESSION AZ626779

VERSION A2626779.1 GI:11748969

KEYWORDS GSS.

SOURCE Mus musculus (house mouse)

ORGANISM Mus musculus

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1 (bases 1 to 19)

AUTHORS Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
 Irlam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,
 Rellly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von
 Niederhausen, A. and Wright, D., Weis, R.

REFERENCE Mouse whole genome scaffolding with paired end reads from 10kb
 plasmid inserts
 unpublished (2000)

AUTHORS Contact: Robert B. Weis

REFERENCE University of Utah Genome Center

JOURNAL Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
 84112, USA

COMMENT Tel: 801 585 5606
 Fax: 801 585 7177
 Email: ddunn@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00
 Plate: 0467 row: A column: 14
 Seq primer: CCTGTAAACGACGCGCACT
 Class: plasmid ends
 High quality sequence stop: 19.

FEATURES

source

Location/Qualifiers

1..19

/organism="Mus musculus"
 /mol_type="genomic DNA"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone="UUCG1M0467A14"
 /sex="Male"
 /lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
 /clone_1fb="Mouse 10kb plasmid UUCG1M library"
 /note="Vector: PMD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource
 (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PMD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

ORIGIN

Query Match

Best Local Similarity 41.0%; Score 8.2; DB 8; Length 19;
 Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 3 CTCTTGACGAGG 15

DB 4 CACTTTCAGGAG 16

RESULT 33

AZ410583

LOCUS

DEFINITION

1M0182E24R Mouse 10kb plasmid UUCG1M library Mus musculus genomic clone UUCG1M0182E24 R, genomic survey sequence.

ACCESSION

AZ410583.1 GI:10534512

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

Mus musculus (house mouse)
 Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1 (bases 1 to 20)
 Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamill,C., Islam,H., Longacre,S., Mahmood,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausen,A. and Wright,D., Weiss,R.
 Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
 Unpublished (2000)
 Contact: Robert B. Weiss
 University of Utah Genome Center
 University of Utah
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA
 Tel: 801 585 5606
 Fax: 801 585 7177
 Email: ddunn@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00
 Plate: 0182 row: E column: 24
 Seq primer: CACACGAGAAACAGTATGACC
 Class: plasmid ends
 High quality sequence stop: 20.

FEATURES

source

Location/Qualifiers

1..20

/organism="Mus musculus"
 /mol_type="genomic DNA"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone="UUCG1M0182E24"
 /sex="Male"
 /lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
 /clone_1fb="Mouse 10kb plasmid UUCG1M library"
 /note="Vector: PMD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource
 (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PMD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

ORIGIN

Query Match

Best Local Similarity 41.0%; Score 8.2; DB 8; Length 20;
 Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GACTTTCGACGA 13

DB 4 GATTCTTCACGA 16

RESULT 34

TA207B030/c

LOCUS

DEFINITION

T. brucei sheared genomic DNA clone 207B03, reverse sequence, genomic survey sequence.

ACCESSION

AL475823.1 GI:11842591

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

Trypanosoma brucei
 Eukaryota; Euklenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
 1 (bases 1 to 20)
 Hall,N., Bowman,S., Lennard,N.J., Doggett,J., Atkin,R., Chillingworth,C., Ormond,D., Harris,B., El-Sayed,N., Hou,L., Melville,S.E., Rajandream,M.A. and Barrell,B.G.
 Submitted (10-DEC-2000) Trypanosoma brucei genome sequencing project, Sanger Centre, The Wellcome Trust Genome Campus, Hinxton, Cambridge CB10 1SA, E-mail: barrell@sanger.ac.uk and nh@sanger.ac.uk
 Constructed at the Institute for Genomic Research (TIGR), Rockville, MD. Genomic DNA isolated from a cloned population of Trypanosoma brucei (TREU927/4 GUTat 10.1) was mechanically sheared to give a tight size distribution (4 kb). The v + 1 method used for the library construction is described in detail in Smith, H. and Venter, J.C. (Making small insert libraries for whole genome shotgun sequencing projects. In

Genome Sequencing: A Practical Approach, eds. M. Vaubin and B. Barrell, Oxford University Press, 1999).
Email: nelayed@tigr.org
Details of T. brucei sequencing at the Sanger Centre are available at http://www.sanger.ac.uk/Projects/T_brucei/.

FEATURES

source

1.20
/organism="Trypanosoma brucei"
/mol_type="genomic DNA"
/strain="TREU927"
/db_xref="taxon:5691"
/clone="207b03"

ORIGIN

Query Match 41.0%; Score 8.2; DB 9; Length 20;
Best Local Similarity 76.9%; Pred. No. 2.5e+07;
Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 GACTCTTGCGAGA 13
| | | | | | | | | |
Db 19 GCTCATGCGAGA 7

RESULT 35
AA916934 19 bp mRNA linear EST 17-JUN-1998
LOCUS on14a09.g1 NCI CGAP LUS Homo sapiens CDNA clone IMAGE:1556632 3'
DEFINITION similar to SW:R13_MOUSE P28662 BRAIN PROTEIN I3 ;, mRNA sequence.
ACCESSION AA916934
VERSION AA916934.1 GI:3056326
KEYWORDS EST.
SOURCE Homo sapiens
ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 19)
NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: cgaps-remail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
Emmert-Buck, M.D., Ph.D.
CDNA Library Preparation: M. Bento Soares, Ph.D.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/BLMT ac:
www-bio.11nl.gov/bdrip/image/image.html

REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT

FEATURES
source

Trace considered overall poor quality
Insert Length: 444 Std Error: 0.00
Seq primer: -40m13 fwd. ET from Amersham
High quality sequence stop: 1.
Location/Qualifiers
1.19
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:1556632"
/tissue_type="carcinoid"
/lab_host="DH10B"
/clone_lib="NCI CGAP LUS"
/note="Organ: lung; Vector: pRTT3D-Pac (Pharmacia) with a
modified polylinker; 1st strand cDNA was prepared from a
neuroendocrine lung carcinoid, and was then primed with a
Not I - oligo(dT) primer. Double-stranded cDNA was ligated
to Eco RI adaptors (Pharmacia), digested with Not I and
cloned into the Not I and Eco RI sites of the modified
pRTT3 vector. Library is normalized. Library was
constructed by Bento Soares and M. Fatima Bonaldo. "

ORIGIN

Query Match 40.0%; Score 8; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 3.1e+07;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 6 TTGCAGGA 13
| | | | | | | | | |
Db 8 TTGCAGGA 1

RESULT 36
CNS09MAX 19 bp mRNA linear HTC 08-JAN-2003
LOCUS Single read from an extremity of a full-length cDNA made from
DEFINITION Anopheles gambiae total adult females 3-PRIME end of clone
FR0AAC48CF12 of strain 6-9 of Anopheles gambiae (African malaria
mosquito).
BX064981
ACCESSION BX064981.1 GI:27638262
VERSION
KEYWORDS
SOURCE HTC.
ORGANISM Anopheles gambiae (African malaria mosquito)
Anopheles gambiae
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Diptera; Nematocera; Culicoidae;
Anopheles.
1 (bases 1 to 19)
Genoscope.
Direct Submission
Submitted (06-JAN-2003) Genoscope - Centre National de Sequencage :
BP 191 91006 EVRY cedex - FRANCE (E-mail : segref@genoscope.cns.fr)
- Web : www.genoscope.cns.fr

REFERENCE
AUTHORS
TITLE
JOURNAL

FEATURES
source
1.19
/organism="Anopheles gambiae"
/mol_type="mRNA"
/strain="6-9"
/db_xref="taxon:7165"
/clone="FR0AAC48CF12"
/plasmid="pME185-FL"
/note="end : 3-PRIME"

ORIGIN

Query Match 40.0%; Score 8; DB 3; Length 19;
Best Local Similarity 68.8%; Pred. No. 3.1e+07;
Matches 11; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 3 CTCTTGACGAGACGG 18
| | | | | | | | | |
Db 19 CCGGCGACGAGACGG 4

RESULT 37
A2500630 19 bp DNA linear GSS 05-OCT-2000
LOCUS 1M0339A10F Mouse 10kb plasmid UUGCM library Mus musculus genomic
DEFINITION clone UUGCM0339A10 F, genomic survey sequence.
A2500630
ACCESSION A2500630.1 GI:10680639
VERSION
KEYWORDS GSS.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 19)
Dunn, D., Aoyagi, A., Barber, M., Beacom, T., Duval, B., Hamil, C.,
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,
Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von
Nederhausen, A., and Wright, D. Weis, R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center

REFERENCE
AUTHORS

TITLE

JOURNAL
COMMENT

University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0339 row: A column: 10
Seq primer: CGTGTAAACGACGCGCCAGT
Class: plasmid ends
High quality sequence stop: 19.
Location/Qualifiers

FEATURES

source

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1. 19
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUCG1M0339A10"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUCG1M library"
/note="Vector: PMD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PMD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."
```

ORIGIN

Query Match 40.0%; Score 8; DB 8; Length 19;
Best Local Similarity 100.0%; Pred. No. 3.1e+07;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 9 CAGGAGC 16
|||
Db 3 CAGGAGC 10

RESULT 38
AZ814554/c 19 bp DNA linear GSS 20-FEB-2001
LOCUS 2M0082P13.F Mouse 10kb plasmid UUCG1M library Mus musculus genomic
DEFINITION clone UUCGCM0082P13 F, genomic survey sequence.
ACCESSION AZ814554
VERSION AZ814554.1 GI:12984462
KEYWORDS GSS.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 19)
REFERENCE 1 Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamill, C., Islem, H., Longacre, S., Mahmoud, M., Meenen, B., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D. Weiss, R. Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
TITLE Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
JOURNAL Unpublished (2000)
COMMENT Contact: Robert B. Weiss
University of Utah Genome Center

University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0082 row: P column: 13
Seq primer: CGTGTAAACGACGCGCCAGT
Class: plasmid ends
High quality sequence stop: 19.
Location/Qualifiers

FEATURES

source

```
1. 19
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUCG2M0082P13"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUCG1M library"
/note="Vector: PMD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PMD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."
```

ORIGIN

Query Match 40.0%; Score 8; DB 8; Length 19;
Best Local Similarity 68.8%; Pred. No. 3.1e+07;
Matches 11; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 4 TCTTCAGGAGCGGC 19
|||
Db 16 TCACACAGGAAACAGC 1

RESULT 39
CF305590 20 bp mRNA linear EST 15-AUG-2003
LOCUS HDAL-01-C09.g1 OSHDAC1-overexpressing transgenic rice lambda phage
DEFINITION cDNA library I (HDAL) Oryza sativa (japonica cultivar-group) cDNA clone HDAL-01-C09, mRNA sequence.
ACCESSION CF305590
VERSION CF305590.1 GI:33677351
KEYWORDS EST.
SOURCE Oryza sativa (japonica cultivar-group)
ORGANISM Oryza sativa (japonica cultivar-group)
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Ehrhartoideae; Oryzaceae; Oryza.
1 (bases 1 to 20)
REFERENCE 1 Kim, J.S., Jun, K.M., Cheong, P.D., Kim, M.J., Lee, T.H., Shin, Y.C., Song, S.I., Kim, J.K., Kim, Y.-K. and Nahm, B.H. Large-scale Sequencing Analysis of Rice ESTs
TITLE Large-scale Sequencing Analysis of Rice ESTs
JOURNAL Unpublished (2003)
COMMENT Contact: Nahm B.H.
Genomics and Genetics Institute, GreenGene Biotech Inc., Division of Bioscience and Bioinformatics, Myongji University

Yongjin, Kyeonggi, Korea
Tel: 82 31 330 6193
Fax: 82 31 321 6355
Email: bhnahm@gbio.com, bhnahm@bio.myongji.ac.kr.

FEATURES

source

Location/Qualifiers
1. .20
/organism="Oryza sativa (japonica cultivar-group)"
/mol_type="mRNA"
/cultivar="Nackdong"
/db_xref="taxon:39947"
/clone="HDAL--01-C09"
/tissue_type="callus"
/dev_stage="proliferated callus on 2N6 media for 2 weeks"
/lab_host="E.coli SOLR"
/clone_lib="OSHDA1-overexpressing transgenic rice lambda phage cDNA library I (HDAL)"
/note="Vector: pBluescript SK(+); Site 1: EcoRI; Site 2: XhoI; Callus was treated with ABA(20um) for 1hour. cDNA was inserted into lambda Uni-ZAP XR vector at 5' end with EcoRI and 3' end with XhoI site. mRNA was derived from rice Histone Deacetylase overexpression line."

ORIGIN

Query Match 40.0%; Score 8; DB 7; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.1e+07;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 TGCAGGAA 14
|||||
Db 4 TGCAGGAA 11

RESULT 40

AZ366451

LOCUS

1M0115N07R Mouse 10kb plasmid UNGC1M library Mus musculus genomic
clone UNGC1M0115N07 R, genomic survey sequence.

DEFINITION

AZ366451 20 bp DNA linear GSS 02-OCT-2000

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

Unpublished (2000)
Contact: Robert B. Weiss
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 015 row: N column: 07
Seq primer: CACACAGGAAACAGCTATGAC
Class: plasmid ends
High quality sequence stop: 20.
Location/Qualifiers
1. .20

FEATURES

source

/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UNG1M0115N07"
/sex="Male"

ORIGIN

Query Match 40.0%; Score 8; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.1e+07;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 10 AGGAGCG 17
|||||
Db 6 AGGAGCG 13

Search completed: August 6, 2005, 16:28:28
Job time : 1629 secs

/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/clone_lib="Mouse 10kb plasmid UNGC1M library"
/note="Vector: pMD42uv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dhars/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

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